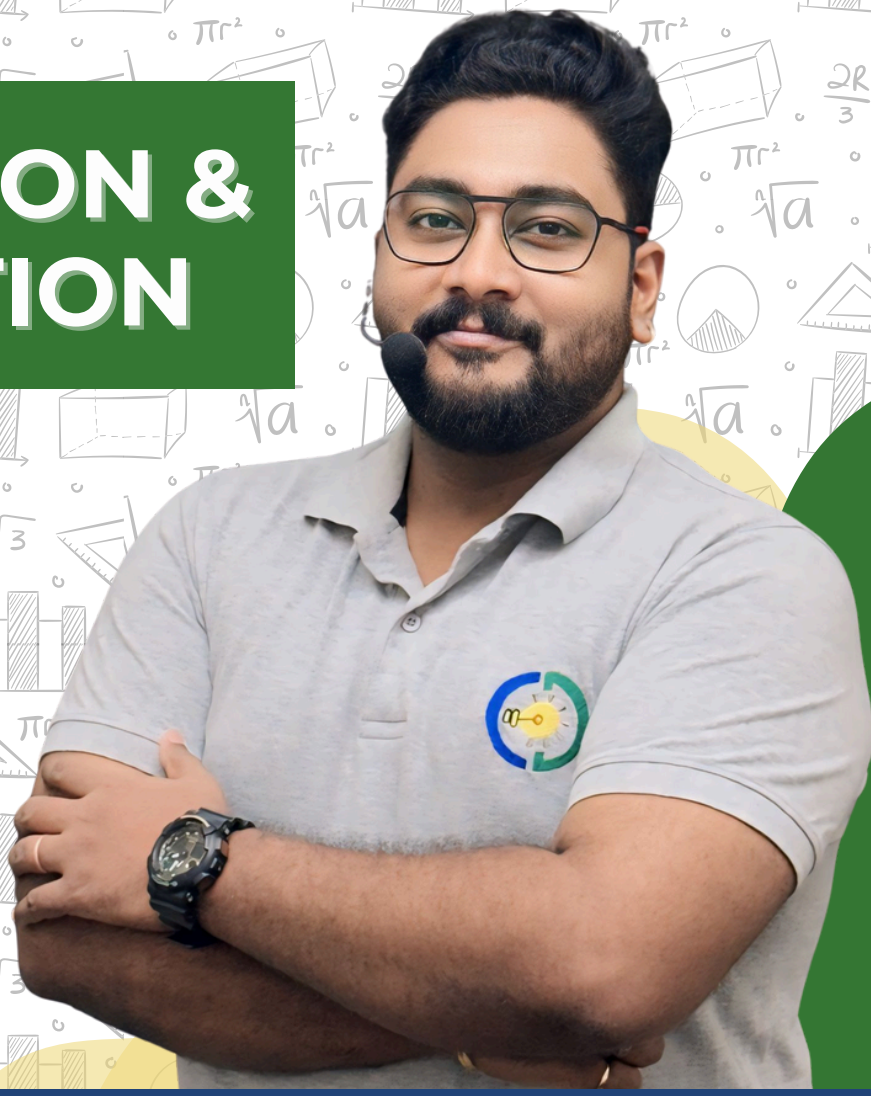
REVISION SHEET

WITH DETAILED SOLUTIONS

CAREER DEFINER

SIMPLIFICATION & APPOXIMATION



For SBI PO/Clerk, IBPS PO/ Clerk, RRB PO/ Clerk, RBI Assistant, RBI Grade B, LIC AAO, NABARD etc.

KAUSHIK MOHANTY

More than 8 Years Experience

About
KAUSHIK MOHANTY

- **Educator & Ex-Banker**
- **Cleared IBPS, RRB & SBI Exams and served Regional Rural Banks For One and Half Years**
- **Teaching Experience of more than 8 Years (Online & Offline)**
- **Founder of Career Definer**
- **Mentored thousands of offline students in more than 30 institutions**
- **Followed by Millions of Students for their Bank Exam Preparation.**

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Foundation & Practice Batch For Bank Exams 2025 (Pre + Mains)

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Courses

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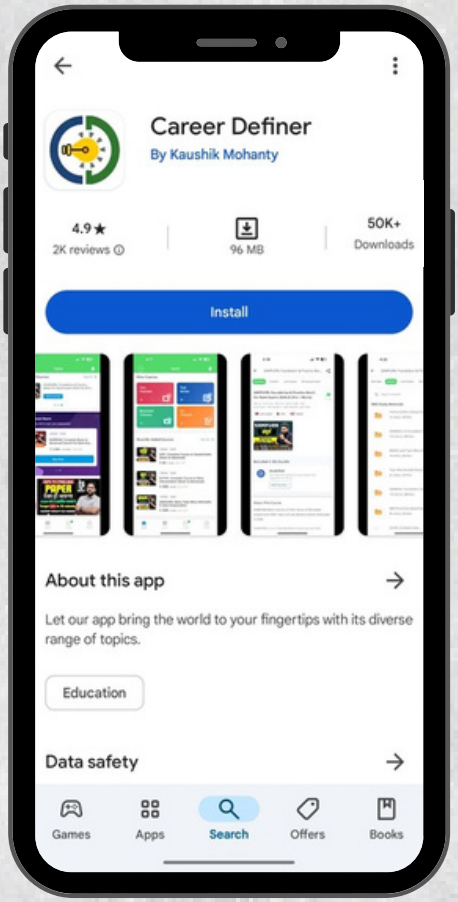
Courses

Target Exams:

- RRB PO 2025
- RRB Clerk 2025
- IBPS PO 2025
- IBPS Clerk 2025
- SBI PO 2025
- SBI Clerk 2025
- All other upcoming Bank & Insurance Exams

Important Features of the Batch:

- Live Sessions
- Recordings Available
- Interactive Sessions
- E-Notes
- Regular Doubt Clearing Sessions
- Weekly Quizzes



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REVISION SHEET

(PART - 1)

WITH DETAILED SOLUTIONS

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SIMPLIFICATION

1) 40% of 4500 + 50% of 1762 =?
   a) 2681
   b) 2618
   c) 2006
   d) 1826
   e) None of these

2) 32 × 15 + ? - 45× 18= 5 × 20
   a) 330
   b) 430
   c) 400
   d) 480
   e) None of these

3) 40 × 28 + 20 × 60 - ? = 23 × 28
   a) 1766
   b) 1676
   c) 1567
   d) 1342
   e) None of these

4) 1599 × 98 ÷ 49 – 699 × 74 ÷ 37 + 3677 = ?
   a) 5477
   b) 5443
   c) 6500
   d) 6545
   e) None of these

5) [(64×2 ÷ 12 × 12] ÷ 2 = 8 ×?
   a) 2
   b) 64
   c) 4
   d) 8
   e) None of these

6) 120 ÷ 4 + 125 % of 800 + 400 % of 500 =? + 290
   a) 2745
   b) 2740
   c) 4456
   d) 3421

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e) None of these

7) $\sqrt{2304} + \sqrt{196} + ? = 29 \times 24$
a) 648
b) 624
c) 642
d) 634
e) None of these

8) 50% of 578 + 25% of 644 = ?
a) 448
b) 844
c) 450
d) 458
e) None of these

9) $\frac{[(242-32)\times(114+176)]}{25*8+3} = ?$
a) 200
b) 220
c) 300
d) 100
e) None of these

10) 640 ÷ 8 + 25% of 680 + 8.33% of 60 + 30 % of 40=?
a) 256
b) 276
c) 267
d) 277
e) None of these

11) $9 * (50\% of\ 200) + \frac{153}{9} * 5 = ?$
a) 985
b) 945
c) 885
d) 845
e) None of these

12) (21 ÷ 588) × (672 ÷ 8) × ? = 300
a) 160
b) 120
c) 80

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d) 100
e) None of these

13) $252 \times 6 \div 9 + 7 \times 3 + 71 = (?)^3 - 469$
a) 10
b) 19
c) 9
d) 8
e) None of these

14) 14.28% of 280 + 37.5% of 240 = ?^2 – 39
a) 13
b) 39
c) 43
d) 52
e) None of these

15) $(740 - ?) \times 3 - 120 = 125\%$ of $40 + 49 \times \sqrt{49}$
a) 569
b) 549
c) 479
d) 489
e) None of these

16) 9.09 % of 220 + ? % of 400 = 704
a) 141
b) 151
c) 161
d) 171
e) None of these

17) $(\sqrt{7396} \times 63) + (203 + 149) = ?$
a) 4550
b) 5400
c) 5770
d) 3400
e) None of these

18) (15/5) of (68/17) of 14025 - ? + 40 % of 640 = 58
a) 8709
b) 6956
c) 7684

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d) 9198
e) None of these

19) $(20)^2 - (125)^{\frac{1}{3}} + (729)^{\frac{1}{3}} = ?$
a) 560
b) 608
c) 602
d) 546
e) None of these

20) (1/10) of 5000 of (4/2) = ? ÷ 0.1
a) 100
b) 200
c) 120
d) 110
e) None of these

21) $(44)^2 = ? + [(14\sqrt{2} + 7\sqrt{2}) \times (8\sqrt{2} + 16\sqrt{2})]$
a) 910
b) 940
c) 928
d) 480
e) None of these

22) $16\frac{2}{3} \times \sqrt{1089} - 35\% \times 1600 = ?^{\frac{1}{2}} - 480$
a) 165810
b) 354830
c) 220900
d) 165840
e) None of these

23) $\sqrt{4489} \times \sqrt{3136} - (28)^2 = (?)^2 + (34)^2 - 37$
a) 40
b) 82
c) 43
d) 86
e) None of these

24) (5125/41) + (6745/71) + (5185/61) – (1395/31) = $(?)^2 - 29$
a) 34
b) 17

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c) 51
d) 68
e) None of these

25) $(\sqrt{3} - \sqrt{10})^2 + (\sqrt{5} + \sqrt{6})^2 = (?)^3 - 3$
a) 2
b) 4
c) 3
d) 5
e) None of these

26) $\sqrt[3]{6859} + (\sqrt[3]{5832}) \times 83.33\% + 37.5\%$ of $1480 - ?\% \times 1250 = 189$
a) 8
b) 35
c) 16
d) 32
e) None of these

27) $(0.0049)^{\frac{1}{2}} + (0.0196)^{\frac{1}{2}} - (0.0225)^{\frac{1}{2}} + (0.729)^{\left(\frac{1}{3}\right)} = \frac{?}{8}$
a) 2.48
b) 7.68
c) 3.68
d) 4.88
e) None of these

28) $(27)^{0.2} \times (81)^{0.4} \times (243)^{0.2} \times (729)^{0.3} = ?$
a) 343
b) 243
c) 144
d) 125
e) None of these

29) 5.55% of $846 + 73 \times 13 - 14\%$ of $850 + \sqrt{(523 - 442)} + 23 = 6 \times 78 + ?^2$
a) 33
b) 21
c) 51
d) 11
e) None of these

30) $13^3 + 47\%$ of $1200 + 1007 \div 19 - (\sqrt{1936} + 1)^2 + 321 \div 3 = ? \times 7$
a) 242
b) 128

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c) 338
d) 528
e) None of these

31) $1235 \div 13 + \sqrt{5625} + \frac{1}{9} \times \frac{1}{8} \times 1656 + 32.5\sqrt{56 + 44} + 918 \div 459 = ? \times 2$
a) 340
b) 420
c) 260
d) 520
e) None of these

32) $3^5 + \sqrt{1444} \div 2 - (\sqrt[3]{1728}) \times 9 + 39^2 - 9 \times 7 \times 17 = ? \times 4$
a) 112
b) 151
c) 176
d) 413
e) None of these

33) $23 \times 53 - (\sqrt{1521}) \times 14 + (\sqrt{400})(19 \div 5) + \sqrt{1681} = ?^2 + 6$
a) 88
b) 28
c) 56
d) 64
e) None of these

34) 175% of $172 + 96 \times 13 + \sqrt{1225} - 22.6 \times \sqrt{2500} + \sqrt[3]{9261} = ? + 24^2 - 6^3$
a) 112
b) 115
c) 118
d) 120
e) None of these

35) $\left(1\frac{3}{4}\right) * \frac{18}{63} + \frac{63}{90} * \left(2\frac{2}{49}\right) * 35 + \left(\left(6\frac{1}{4}\right) + \left(3\frac{5}{8}\right) + \left(4\frac{1}{8}\right)\right) * 16 = ?$
a) 274.5
b) 209.5
c) 217.5
d) 234.5
e) None of these

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APPROXIMATION

36) $1599.8 * 5.01^3\ \% - 1600.12 * 5.02^2\ \% = ?$
a) 1200
b) 1500
c) 1600
d) 1800
e) 1900

37) $9999.5 * 7.01^3\ \% - 2499.9 * 8.02^2\ \% = ?$
a) 32700
b) 31900
c) 39300
d) 35100
e) 34500

38) $\sqrt[3]{10647.8} + \sqrt{960.5} + \sqrt[3]{342.9} = ?$
a) 60
b) 50
c) 40
d) 70
e) 80

39) $\sqrt{3248.6} + \sqrt{5928.9} + \sqrt[3]{1727.5} = ?$
a) 146
b) 156
c) 136
d) 126
e) 116

40) $2524.8 \div 24.99 * 74.9 \div 5.01 = ?$
a) 1414
b) 1515
c) 1616
d) 1717
e) 1818

41) $672.9 * 49.98 \div 5.02 \div 24.97 = ?$
a) 269
b) 273
c) 275
d) 265

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e) 263

42) $(\sqrt{121.2} + 159.9) * 32.01 - (\sqrt[3]{511.8} + 84.97) * 30.98 = ?$
a) 2439
b) 2563
c) 2589
d) 2433
e) 2861

43) $929.8 * 0.73/3.12 * 17.98 - 55.97 * 78.02 = ?$
a) 1111
b) 1212
c) 1313
d) 1414
e) 1515

44) $(249.8 * 18.02\ \% + 1200.3 * 45.01\ \%) \div 12.98 = ?$
a) 25
b) 35
c) 45
d) 55
e) 65

45) $(8399.6 * 15.03\ \% + 6300.4 * 8.02\ \%) \div 62.99 = ?$
a) 18
b) 28
c) 38
d) 48
e) 58

46) $10.98^2 + 36.02^2 + 18.01^2 = ? + (2.99 + 5.01)^2 + (12.98^2 - 4.02^2)$
a) 1428
b) 1822
c) 1524
d) 1726
e) 1382

47) $22.99^2 + 4.01^2 - 12.98^2 + ? = 28.98^2 + 14.02^2 + (2.01^2 * 2.99^2)$
a) 693
b) 691
c) 681
d) 697

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e) 689

48) $\sqrt[3]{5831.9} * \sqrt[3]{63.98} \div \sqrt[3]{7.99} = ? + \sqrt[3]{3374.8} \div \sqrt[3]{125.1} * \sqrt[3]{511.9}$
a) 8
b) 10
c) 12
d) 14
e) 16

49) $\sqrt[3]{1727.5} * \sqrt[3]{511.8} + 5*? = (\sqrt[3]{4095.6} * \sqrt[3]{2743.9}) + \sqrt[3]{2743.8} \div \sqrt[3]{342.9}$
a) 22
b) 24
c) 26
d) 28
e) 30

50) $(155.8 \div 3.01 \div 12.99 \div 2.01) * 12.98 + 34.99 * 3.02 + 246.9 - 122.98 = x$
a) 215
b) 225
c) 235
d) 245
e) 255

51) $\frac{(45.12)^{7.5}}{(44.98)^{\frac{3}{2}}} \times (44.95)^{-3} = \left(\sqrt{44.97}\right)^{\frac{1}{4}} \times \left(\sqrt{45.12}\right)^{?}$
a) 5(3/4)
b) 4 (6/8)
c) 5 (7/16)
d) 3 (13/8)
e) 7 (13/8)

52) $\frac{57.87\% \ of \ 149.98 + 43.67\% \ of \ 699.69 + 39.99\% \ of \ 749.88 + 4.99}{? + 15.69} = 27.96$
a) 20
b) 13
c) 9
d) 11
e) 17

53) (? % of 399.80 + 90.27% of 919.69)/ 89.90 = 9.63
a) 35
b) 18
c) 23

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d) 27
e) 32

54) (1.43/6.67) + (5.34 /7.01) - (? / 13.78) = 3.67/ 13.90
a) 6
b) 8
c) 10
d) 12
e) 14

55) (12.98/17.67) + (13.34/26.89) - (24.78/27.45) = ? / 35.69
a) 10
b) 12
c) 14
d) 16
e) 18

56) (23456.78 *4.07) + (12764.69/ 2.997) = ?
a) 77945
b) 53752
c) 98083
d) 88729
e) 38303

57) $288.08 \div 5.989 - 12.025 * 27.950 \div 5.98 + \sqrt{(2024.5)} + \sqrt{(1090.01)} = \sqrt{x}$
a) 1600
b) 1500
c) 1400
d) 1300
e) 1200

58) $\sqrt{(1224.45)} - 619.98 \div 5.014 + 624.04 \div 7.99 + 23.021 * 8.998 = x^2$
a) 14
b) 17
c) 19
d) 15
e) 20

59) $404.95 \div 27.04 - 335.998 \div 6.99 + 314.97 \div 9.051 + 496.107 \div 7.98 = x^3$
a) 4
b) 6
c) 5

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d) 2
e) 3

60) $1296.08 \div 11.959 + \sqrt{(1023.54)} + \sqrt{(1295.64)} + 919.98 \div 23.014 = (\sqrt{323.68}) * x$
a) 15
b) 12
c) 10
d) 17
e) 19

61) $2039.84 \div 7.98 + 632.12 \div 4.06 = x^2 - 25.99^2$
a) 28
b) 35
c) 36
d) 33
e) 31

62) $\sqrt[3]{(3374.65)} - 1.99^6 + 1374.91 \div 124.62 + 689.97 \div 14.98 = x^3$
a) 1
b) 2
c) 5
d) 7
e) 9

63) $164.98 * 44.97 \div 15.08 + 239.95 * 39.96 \div 14.99 - 549.94 * 15.014 \div 24.98 = x$
a) 709
b) 501
c) 805
d) 607
e) 903

64) 119.94% of 655.054 – 74.98% of 719.96 = x + 39.98% of 459.92
a) 67
b) 86
c) 62
d) 81
e) 75

65) 149.985% of 262.06 + $\sqrt[3]{(1330.95)} - 2219.96 \div 14.97 = ?^2$
a) 18
b) 14
c) 16

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d) 12
e) 20

66) $(\sqrt[3]{4095.78}) \div (\sqrt[3]{63.901}) * (\sqrt[3]{6859.09}) = X + 1.99 * \sqrt[3]{2743.84}$
a) 52
b) 48
c) 54
d) 44
e) 50

67) $(\sqrt{15624.85})$ % of $(\sqrt[3]{9260.78}) * 9.91^2 = (\sqrt{575.87})\ Y + \sqrt[3]{728.78}$
a) 101
b) 103
c) 107
d) 109
e) 111

68) $2340.191 \div 17.921 + 39.958\%$ of $34.908 = (X)^3 + 722.108 \div 37.994$
a) 4
b) 5
c) 9
d) 7
e) 11

69) 139.891 % of 179.910 + 3003.303 ÷ $\sqrt{1520.718} = 4.898*Y - 623.103 + 566.981$
a) 73
b) 71
c) 77
d) 75
e) 79

70) 15.18% of 859.99 – 44.714% of 559.81 + 74.79% of 299.71 = X + 73.91 -18.19
a) 44
b) 42
c) 46
d) 48
e) 50

71) I. 784 ÷ 14 + 598 ÷ 13 + x = 99% of 2500
II. 221 ÷13 * $\sqrt{(576)}$ + 100 = y
Find (x – 4y).
(x – 4y) ज्ञात कीजिये।

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a) 241
b) 341
c) 261
d) 361
e) None of these

72) I. $15^2 + 12^2 = 11^2 + x$
II. 6 * 6 * 6 * 6 * 6 + 6 * 6 * 6 * 6 = 81 * 3.5 * y
Find (x/y).
(x/y) ज्ञात कीजिये।
a) 7.75
b) 7.15
c) 8.25
d) 6.50
e) None of these

73) I. $\sqrt{(1024)} * (1/2\text{^}-5) + 8^2 * 4 = x * 2^6$
II. $15^2 + 17^2 - y = 21^2$
Find (y – 3)/x.
(y – 3)/x ज्ञात करें।
a) 2.5
b) 1.5
c) 3.5
d) 4.5
e) None of these

74) I. $9 * 9 * 9 + 6 * 6 * 6 = 1.5^x * 35 * 8$
II. $0.005 * 10^5 * 33 - y = 60^2$
Find (y/x).
(y/x) ज्ञात कीजिये।
a) 4300
b) 4700
c) 4200
d) 4500
e) None of these

75) I. $17^2 + 19^2 + x = 21^2 + 15^2$
II. $(5175 \div 23)^{\frac{1}{2}} + (72 * 2)^{\frac{1}{2}} = (y)^{\frac{1}{2}}$
Find $(y^{\frac{1}{2}} - x^{\frac{1}{2}})$.
$(y^{\frac{1}{2}} - x^{\frac{1}{2}})$ ज्ञात कीजिये।
a) 23

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b) 27
c) 29
d) 31
e) None of these

76) I: $\sqrt[3]{(1728)} \div \sqrt[3]{(8)} * \sqrt{(144)} - 25\%$ of $\sqrt[3]{4096} \div \sqrt[3]{64} + x\%$ of $300 + 200\%$ of $48 = y$
II: $x = 3x - \sqrt{7744}$
Find the value y.
y का मान ज्ञात करें।
a) 219
b) 249
c) 269
d) 299
e) None of these

77) I: $\sqrt{(1024)} * 2 \div \sqrt[3]{(64)} + 33.33\%$ of $93 * 2 - 16.66\%$ of $72 * 4 + 216\%$ of $300 \div \sqrt{(81)} = x\%$ of 51
II: $x/5\%$ of $375 = y$
Find the value of y.
Y का मान ज्ञात कीजिए।
a) 250
b) 40
c) 150
d) 60
e) None of these

78) I: 25% of $440 + 208/8 * 3 + 15 * 12 = x$
II: $357/7 * 2 + 24\%$ of $650 + 7/9 * 72 = y$
Find the sum of x and y.
X और y का योग ज्ञात कीजिए।
a) 672
b) 682
c) 692
d) 702
e) None of these

79) I: $\sqrt[3]{(5832)} * 3^3 \div \sqrt{(6561)} - \sqrt[3]{(3375)} \div \sqrt{(25)} + x = \sqrt[3]{(2197)} * 2 + \sqrt[3]{(1331)} * \sqrt{(121)} - \sqrt[3]{(6859)} * 6$
II: $\sqrt[3]{(729)} * \sqrt{(81)} - 7 * \sqrt[3]{(125)} * 2 + y = \sqrt[3]{(4096)} \div \sqrt{(16)} + \sqrt[3]{(2744)} \div 7 * \sqrt[3]{(512)}$
Find the value of $x \div \sqrt[3]{(125)} * y^2 - 102 * 2$
$x \div \sqrt[3]{(125)} * y^2 - 102 * 2$ का मान ज्ञात कीजिए
a) 285

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b) 282
c) 283
d) 287
e) None of these

80) I: 8% of 780 + x = 13% of 1400
II: 26% of 550 + 2% of 450 – y = 5% of 680
III: 120% of 80 + 20% of 980 – 28% of 650 = z
Determine the relationship among x, y and z.
x, y और z के बीच संबंध निर्धारित करें।
a) x < y < z
b) x > y = z
c) x > y > z
d) x = y > z
e) x > y < z

81) I: 5% of 620 + 14.28% of 777 – x = 8% of 450 + 2% of 550
II: 6% of 450 + 5% of 240 + 250% of 8 = y
III: 35% of 240 – 150% of 12 + z = 23% of 1100
Determine the relationship among x, y and z.
x, y और z के बीच संबंध निर्धारित करें।
a) x > y > z
b) x > y < z
c) x < y < z
d) x = y > z
e) x < y = z

82) I: 3400 *5/17 + 550 *36.36% = 100x
II: 1800 *83.33% + 1200 *3/2 + 16 *7 = y
III: 15 *3 + 4 *16 + 16% of 250 = z
Find the sum of x, y, and z.
x, y, और z का योग ज्ञात कीजिए।
a) 3572
b) 3276
c) 3573
d) 3579
e) None of these

83) I: 550 * 45.45% - 780 * 7.69% + 600 * 67.5% = x
II: 640 * 55% + 700 * 45% - 800 * 64% = y
III: 720 * 35% + 640 * 5/16 – 960 * 3/16 = z
Find the sum of x, y, and z.

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x, y, और z का योग ज्ञात कीजिए।

a) 1054
b) 1022
c) 1038
d) 1046
e) None of these

84) I: 240 * 116.66% + 320 * 62.5% + x = 8^3
II: 450 * 55.55% + 64 * 3 + 78 * 14/13 = y^3 + 14
III: 900 * 46.667% + 180 *12.5 + 37 *2 = z^3
Find the sum of x, y, and z.
x, y, और z का योग ज्ञात कीजिए।

a) 52
b) 51
c) 54
d) 50
e) None of these

85) I: 3600 * 44.44% + 2400 * 41.66% - 54. 5 * 16 = x^3
II: (x * 40) * (5 * x) % + (45x) * 75% - (x + 5) * 4 = y^2
III: (20x + 24y) * (y/2) % + 780 * (x + 3) % + (2y + x + 5) = z^2
M = 2x + 3y – 4z
Find the value of M.
M का मान ज्ञात कीजिए।

a) 30
b) 28
c) 31
d) 29
e) 27

86) I: 79.998 % of 279.891 + 45.342 * 17.917 – 75.213 * 6.031 = 5.071X^3 - 741.191 ÷ 18.903 - 2.071
II: 2340.192 ÷ 17.921 + 28.105 % of 599.802 = Y^3 - 4.981 * 8.997
Find the value of √ (3X + 4Y +6).
√ (3X + 4Y +6) का मान ज्ञात कीजिए।

a) 11
b) 15
c) 13
d) 18
e) 19

87) I: 623.103 + 566.971 + 551.334 – (√7921.107) * 6.208 = X + 191.998

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II: 11.032 + 73.962 - 18.192 + 25.109% of 479.910 - 50.017 * 1.998 = Y - 59.862
Find the average of the values of X and Y.
X और Y के मानों का औसत ज्ञात कीजिए।
a) 343
b) 581
c) 729
d) 545
e) 477

88) I: (√1680.909) * 1.990 - 189.950 + 44.923% of 519.981 = X - 39.988 % of √4224.785
II: 39.998% of 34.908 + 28.085 * 21.908 + 15.988 * 13.912 = Y + 12.235 + 15.224
Find the difference between the values of X and Y.
X और Y के मानों के बीच अंतर ज्ञात कीजिए।
a) 576
b) 719
c) 675
d) 828
e) 551

89) I: 150.097% of 144.181 + 551.341 + 114.985 + X = 243.051 * 3.989
II: 74.895% of 599.982 - 3599.965 ÷ 179.781 + 28.898 * 14.771 = 1.912^3 * Y + 3422.987 ÷ 7.095
Find the value of (Y – X/3).
(Y – X/3) का मान ज्ञात कीजिए।
a) 13
b) 17
c) 23
d) 28
e) 31

90) I: (√15624.85) % of 499.87 + 7.89 * 367.78 ÷ 22.78 = X + 1.90
II: (√1520.78) * ($\sqrt[3]{13823.78}$) ÷ (√675.87) = √Y + 24.78% of 39.78
Find the sum of the tenth digit of the values of X and Y.
X और Y के मानों के दसवें अंक का योग ज्ञात कीजिए।
a) 12
b) 18
c) 14
d) 10
e) 8

91) I: ($\sqrt[3]{15624.901}$) % of ($\sqrt[3]{63.89}$) = X - 1070.901 ÷ ($\sqrt[3]{4913.091}$)
II: (√255.69) * ($\sqrt[3]{3374.78}$) - Y^2 - ($\sqrt[3]{2197.47}$) = ($\sqrt[3]{42875.017}$) – ($\sqrt[3]{35936.86}$)

Connect with
Kaushik Mohanty on:

Find the square root of the difference between the value of X and Y.
X और Y के मान के बीच के अंतर का वर्गमूल ज्ञात कीजिए।

a) 2
b) 5
c) 7
d) 9
e) 3

92) I: $\sqrt[3]{15624.89}$ + 15.08% of 879.99 – $\sqrt{1520.91}$ * 11.12 + 15.98 * $\sqrt{1224.64}$ = ($\sqrt{15129.16}$)% of 499.95 – X
II: ($\sqrt{1224.67}$) % of 179.97 + $\sqrt{840.78}$ - 719.891 ÷ $\sqrt{64.031}$ + 48.191 * $\sqrt{25.25}$ = Y
Find the difference between the value of X and Y.
X और Y के मान के बीच अंतर ज्ञात कीजिए।

a) 75
b) 90
c) 95
d) 85
e) 100

93) I: 35.84% of 750.14 – 241.87 + 1119.78 ÷ 6.99 + 840.45 ÷ 11.67 = X + 59.89^2 ÷ 3.12^2 - 7.92 * 122.92
II: 14.99 * $\sqrt{143.98}$ + $\sqrt[3]{124.91}$ * 15.92 = Y + 22.01 - 20.03 + 19.67 -238.14 - 14.31
Find the value of $\sqrt[3]{(X + Y - 1)}$.
$\sqrt[3]{(X + Y - 1)}$ का मान ज्ञात कीजिए।

a) 13
b) 9
c) 14
d) 17
e) 15

94) I: ($\sqrt{1295.61}$) % of 449.87 ÷ 8.78 + 77.98% of 250.02 – 5364.72 ÷ 36.87 + X = 23.61% of 549.71 + 53.65% of 699.78
II: 35.45% of 79.87 + 124.64% of 47.74 – 55.45% of 40.12 = Y + 1957.87 ÷ 88.98 + 6.81 * 11.22 - 11.33 * 5.65
Find the difference between the value of X and Y.
X और Y के मान के बीच अंतर ज्ञात कीजिए।

a) 511
b) 417
c) 409
d) 421
e) None of these

Connect with
Kaushik Mohanty on:

95) I: 608.08 ÷ 37.91 + √143.78 * 12.89 = X + 45.08 * √575.87 - 125.02 * √144.45 + 948.05 ÷ √6240.97
II: 965.32 + 324.89 + 7.23 - 45.23 - 45.07% of 459.84 = Y - 74.89% of 599.98 – 77.87% of 250 + 237.73 ÷ 16.69
Find the ratio between the value of X and Y.
X और Y के मान के बीच का अनुपात ज्ञात कीजिए।
a) 133: 429
b) 89: 111
c) 143: 219
d) 145: 419
e) None of these

96) I: 25.09% of 839.90 - 50.01 * 1.98 + 45.09 * 3.998 - √1680.09 * 1.990 = X - 15.08% of 879.99
II: 55.25% of 279.87 + 7.15% 299.81 + 35.86% of 549.8 – 13.81% of 650.45 = Y + 13.13% of 99.99 + 188.88
Find the sum of the values of X and Y.
X और Y के मानों का योग ज्ञात कीजिए।
391
387
441
383
None of these

97) $x = 15.01^2 - 13.03^2 + 7.99^3 - 5.02^3 + 21.30$
$y = \sqrt[3]{1728.08} + \sqrt{(26.06 * 103.96)} + 11.01^2$
Find the value of $[(y^2/25) - x^2/(32 * 8)]$
$[(y^2/25) - x^2/(32 * 8)]$ का मान ज्ञात कीजिए।
a) 528
b) 654
c) 498
d) 340
e) 592

98) I: 19.97% of 349.89 + 16.06% of 325.12 = 170.08% of 149.92 - X
II: Y% of 49.99 – 25.05 * 16.02 = 339.84 ÷ 17.03 – 159.97
Find the value of (Y ÷ 13) + (X + 7)/28.
(Y ÷ 13) + (X + 7)/28 का मान ज्ञात कीजिए।
a) 33
b) 47
c) 45
d) 32
e) 49

Connect with
Kaushik Mohanty on:

99) I: $38.02^2 + 41.01^2 + 124.97 * 11.99 \div \sqrt{35.98} = X^3$
II: $(68.12 \div 14.91) * (989.9 \div 51.1) + y = (55.55 \div 76.7) * (693.3 \div 3.7)$
III: $26.01^3 \div 12.97^3 * 4.78 + 21.99^3 \div 11.01^3 * 3 = z^2 - 252.21 \div 6.97$
Determine the relationship among x, y and z.
x, y और z के बीच संबंध निर्धारित करें।
a) $x > y > z$
b) $x < y > z$
c) $x < y < z$
d) $x = y > z$
e) $x < y = z$

100) I: $78.12 * 95.79 \div 311.8 * 24.98 \div X = X * 1044.2 \div 173.6$
II: $\sqrt[3]{\{15.01 + (\sqrt{323.95}) + 3007.02 \div 96.97\}} * \sqrt[3]{(10624.01 + 23.99)} = X * 7.88$
III: $[\sqrt[3]{46655.98}]$ % of $19.96^3 - [\sqrt[3]{15625.01}]$ % of $64.02^2 = X^3 - 1023.01 \div 2.99$
Determine the relationship among x, y and z.
x, y और z के बीच संबंध निर्धारित करें।
a) $x > y > z$
b) $x > y < z$
c) $x < y < z$
d) $x = y > z$
e) $x < y = z$

Connect with
Kaushik Mohanty on:

SOLUTION

1) Answer
40% of 4500 + 50% of 1762 = ?
40%×4500+50%×1762=?
40/100×4500+50/100×1762=?
1800+881=2681
2681=1800+881
?= 2681

2) Answer
32 × 15 + ? - 45 × 18 = 5 × 20
32×15+?−45×18=5×20
480+?−810=100
480+?−810=100
?=810−480+100
?=810−480+100 =430
Answer: 430

3) Answer
Q) 40 × 28 + 20 × 60 - ? = 23 × 28
40×28+20×60−?=23×28
1120+1200−?=644
2320−?=644
?=2320−644=1676
?=2320−644=1676
Answer: 1676

4) Answer
Q) 1599 × 98 ÷ 49 – 699 × 74 ÷ 37 + 3677 = ?
1599×98÷49−699×74÷37+3677=?
(1599×2)−(699×2)+3677=?
3198−1398+3677=5477
5477=3198−1398+3677
Answer: 5477

5) Answer
Q) [(64 × 2 ÷ 12 × 12] ÷ 2 = 8 × ?
[(64×2÷12×12)]÷2=8×?
(128÷12×12)÷2=8×?
(128/12×12)÷2=8×?

Connect with
Kaushik Mohanty on:

128÷2=8×?
64 =8×?
?=64/8
?=8
Answer: 8

6) Answer
Q) 120 ÷ 4 + 125% of 800 + 400% of 500 = ? + 290
120÷4+125%of800+400%of500=?+290
30+1.25×800+4×500=?+290
30+1000+2000=?+290
3030=?+290
3030−290=?
?=2740
Answer: 2740

7) Answer
Q) √2304 + √196 + ? = 29 × 24
√2304+√196+?=29×24
48+14+?=696
62+?=696
?=696−62
?=634
Answer: 634

8) Answer
Q) 50% of 578 + 25% of 644 = ?
50%of578+25%of644=?
50/100×578+25/100×644=?
289+161=450
450=289+161
Answer: 450

9) Answer
Q) [(242-32) × (114+176)] / (25×8+3) = ?
[(242−32)×(114+176)]/(25×8+3)=?
[210×290]/203=?
60900/203=300
300=60900/203
Answer: 300

10) Answer

Connect with
Kaushik Mohanty on:

640 ÷ 8 + 25% of 680 + 8.33% of 60 + 30% of 40 = ?
640÷8+25%of680+8.33%of60+30%of40=?
80+170+5+12=267
80+170+5+12=267
Answer: 267

11) Answer
9 × (50% of 200) + 153 ÷ 9 × 5 = ?
9×(50%of200)+153÷9×5=?
9×(50/100)×200+153/9×5=?
9×100+17×5=?
900+85=985
900+85=985
Answer: 985

12) Answer
(21 ÷ 588) × (672 ÷ 8) × ? = 300
(21÷588)×(672÷8)×?=300
(588/21)×(8/672)×?=300
1/28×84×?=300
3×?=300

13) Answer
252 × 6 ÷ 9 + 7 × 3 + 71 = $(?)^3$ – 469
252×6÷9+7×3+71=$(?)^3$−469
252×2/3+21+71=$?^3$−469
168+21+71=$?^3$−469
260+469=$?^3$
729=$?^3$
?=9
Answer: 9

14) Answer
14.28% of 280 + 37.5% of 240 = $?^2$ – 39
14.28%of280+37.5%of240=$?^2$−39
40+90=$?^2$−39
130+39=$?^2$
169=$?^2$
?=13

15) Answer
(740 + ?) × 5 – 120 =125% of 40 + 49 × √49

Connect with
Kaushik Mohanty on:

(740 - ?) × 3 = 125% of 40 + 49 × √49 + 120
(740 - ?) × 3 = 125/100 × 40 + 49 × 7 + 120
(740 - ?) × 3 = 50 + 343 + 120
(740 - ?) × 3 = 513
740 - ? = 513/3
740 - ? = 171
? = 569

16) Answer
9.09 % of 220 + ? % of 400 = 704
20 + ?% of 400 = 704
(?/100) × 400 = 684
? = 68400/400
? = 171

17) Answer
(√7396 × 63) +(203 + 149)= ?
(86 × 63) + (203 + 149) = ?
5418 + 352 = 5770
Answer: c) 5770

18) Answer
(15/5) of (68/17) of 14025 - ? + 40% of 640 = 58
9000 - ? + 256 = 58
9000 - ? + 256 = 58
9000 - ? = 58 - 256
9000 - ? = -198
-? = -198 - 9000
-? = -9198
? = 9198

19) Answer
20^2– (125)^(1/3)+ (729)^(1/3)= ?
400 - 5 + 9 = ?
? = 404

20) Answer
(1/10) of 5000 of (4/2) = ? ÷ 0.1
(1/10) × 5000 × 2 = ? ÷ 0.1
500× 2 = ? ÷ 0.1
? = 1000 × 0.1
? = 100

Connect with
Kaushik Mohanty on:

21) Answer

$(44)^2 = ? + [(14\sqrt{2} + 7\sqrt{2}) \times (8\sqrt{2} + 16\sqrt{2})]$

$1936 = ? + [\sqrt{2}(14+7) \times \sqrt{2}(8+16)]$

$1936 = ? + 21\sqrt{2} \times 24\sqrt{2}$

$1936 = ? + 21 \times 24 \times 2$

$1936 = ? + 504 \times 2$

$1936 = ? + 1008$

$? = 1936 - 1008$

$? = 928$

22) Answer

$16(2/3) \times \sqrt{1089} - 35\% \times 1600 = ?^{1/2} - 480$

$(50/3) \times 33 - (35/100) \times 1600 = ?^{1/2} - 480$

$50 \times 11 - 35 \times 16 = ?^{1/2} - 480$

$550 - 560 = ?^{1/2} - 480$

$470 = ?^{1/2}$

$? = 220900$

23) Answer

$\sqrt{4489} \times \sqrt{3136} - (28)^2 = (?)^2 + (34)^2 - 37$

$67 \times 56 - 784 = (?)^2 + 1156 - 37$

$3752 - 784 = (?)^2 + 1119$

$2968 = (?)^2 + 1119$

$?^2 = 2968 - 1119$

$?^2 = 1849$

$? = 43$

24) Answer

$(5125/41) + (6745/71) + (5185/61) - (1395/31) = (?)^2 - 29$

$125 + 95 + 85 - 45 = (?)^2 - 29$

$305 - 45 = (?)^2 - 29$

$260 = (?)^2 - 29$

$260 + 29 = ?^2$

$?^2 = 289$

$? = 17$

25) Answer

$(\sqrt{3} - \sqrt{10})^2 + (\sqrt{5} + \sqrt{6})^2 = (?)^3 - 3$

$3 + 10 - 2\sqrt{30} + 5 + 6 + 2\sqrt{30} = (?)^3 - 3$

$13 + 11 = (?)^3 - 3$

Connect with
Kaushik Mohanty on:

$24 = (?)^3 - 3$
$24 + 3 = (?)^3$
$27 = (?)^3$
$? = 3$

26) Answer
$\sqrt[3]{6859} + (\sqrt[3]{5832}) \times 83.33\% + 37.5\%$ of $1480 - ?\% \times 1250 = 189$
$19 + 18 \times (83.33/100) + (37.5/100) \times 1480 - (?/100) \times 1250 = 189$
$19 + 18 \times (5/6) + (3/8) \times 1480 - (?/100) \times 1250 = 189$
$19 + 15 + 555 - (?/100) \times 1250 = 189$
$589 - (?/100) \times 1250 = 189$
$(?/100) \times 1250 = 400$
$? = (400/1250) \times 100$
$? = 32$

27) Answer
(0.0049)^1/2 + (0.0196)^1/2 – (0.0225)^1/2 + (0. 729)^1/3 = ? / 8
0.07 + 0.14 – 0.15 + 0.9 = ?/8
0.21 – 0.15 + 0.9 = ?/8
? = 7.68

28) Answer
(27)^0.2 × (81)^0.4× (243)^0.2 × (729)^0.3 = ?
(3)^3×0.2 × (3)^4×0.4 × (3)^5×0.2 × (3)^6×0.3 = ?
(3)^0.6 × (3)^1.6 × (3)^1.0 × (3)^1.8 = ?
3^(0.6+1.6+1.0+1.8) = ?
(3)^5 = ?
? = 243

29) Answer
5.55% of $846 + 73 \times 13 - 14\%$ of $850 + \sqrt{(523 - 442)} + 23 = 6 \times 78 + ?^2$
$1/18 \times 846 + 949 - 119 + 9 + 23 = 468 + ?^2$
$47 + 949 - 119 + 9 + 23 - 468 = ?^2$
$?^2 = 441$
$? = 21$

30) Answer
$13^3 + 47\%$ of $1200 + 1007 \div 19 - [\sqrt{(1936)} + 1]^2 + 321 \div 3 = ? \times 7$
$2197 + 564 + 53 - (44 + 1)^2 + 107 = ? \times 7$
$2197 + 564 + 53 - 2025 + 107 = ? \times 7$
$896 = ? \times 7$
$? = 128$

Connect with
Kaushik Mohanty on:

31) Answer

$1235 \div 13 + \sqrt{5625} + 1/9 \times 1/8 \times 1656 + 32.5\ \sqrt{(56 + 44)} + 918 \div 459 = ? \times 2$

$95 + 75 + 23 + 325 + 2 = ? \times 2$

$520 \div 2 = ?$

$260 = ?$

32) Answer

$3^5 + \sqrt{1444} \div 2 - (\sqrt[3]{1728}) \times 9 + 39^2 - 9 \times 7 \times 17 = ? \times 4$

$243 + 38 \div 2 - 12 \times 9 + 1521 - 1071 = ? \times 4$

$243 + 19 - 108 + 1521 - 1071 = ? \times 4$

$? = 604 / 4$

$? = 151$

33) Answer

$23 \times 53 - (\sqrt{1521}) \times 14 + (\sqrt{400})\ (19 \div 5) + \sqrt{1681} = ?^2 + 6$

$1219 - 39 \times 14 + 20 \times 3.8 + 41 - 6 = ?^2$

$1219 - 546 + 76 + 41 - 6 = ?^2$

$784 = ?^2$

$? = 28$

34) Answer

175% of $172 + 96 \times 13 + \sqrt{1225} - 22.6 \times \sqrt{2500} + \sqrt[3]{9261} = ? + 24^2 - 6^3$

$301 + 1248 + 35 - 1130 + 21 - 576 + 216 = ?$

$? = 115$

35) Answer

$1\ 3/4 * 18/63 + 63/90 * 2\ 2/49 * 35 + (6\ 1/4 + 3\ 5/8 + 4\ 1/8) * 16 = ?$

$7/4 * 2/7 + 7/10 * 100/49 * 35 + (25/4 + 29/8 + 33/8) * 16 = ?$

$0.5 + 50 + (50 + 29 + 33)/8 * 16 = ?$

$50.5 + 224 = ?$

$? = 274.5$

36) Answer

$1599.8 * 5.01^3\ \% - 1600.12 * 5.02^2\ \% = ?$

$? = 1600 * 5^3\ \% - 1600 * 5^2\ \%$

$? = 1600 * 125\% - 1600 * 25\%$

$? = 1600 * 125/100 - 1600 * 25/100$

$? = 2000 - 400$

$? = 1600$

37) Answer

Connect with
Kaushik Mohanty on:

$9999.5 * 7.01^3\ \% - 2499.9 * 8.02^2\ \% = ?$
$? = 10000 * 7^3\ \% - 2500 * 8^2\ \%$
$? = 10000 * 343\% - 2500 * 64\%$
$? = 10000 * 343/100 - 2500 * 64/100$
$? = 34300 - 1600$
$? = 32700$

38) Answer
$\sqrt[3]{10647.8} + \sqrt{960.5} + \sqrt[3]{342.9} = ?$
$? = \sqrt[3]{10648} + \sqrt{961} + \sqrt[3]{343}$
$? = \sqrt[3]{22^3} + \sqrt{31^2} + \sqrt[3]{7^3}$
$? = 22 + 31 + 7$
$? = 60$

39) Answer
$\sqrt{3248.6} + \sqrt{5928.9} + \sqrt[3]{1727.5} = ?$
$? = \sqrt{3249} + \sqrt{5929} + \sqrt[3]{1728}$
$? = \sqrt{57^2} + \sqrt{77^2} + \sqrt[3]{12^3}$
$? = 57 + 77 + 12$
$? = 146$

40) Answer
$2524.8 \div 24.99 * 74.9 \div 5.01 = ?$
$? = 2525 \div 25 * 75 \div 5$
$? = 101 * 75 \div 5$
$? = 101 * 15$
$? = 1515$

41) Answer
$672.9 * 49.98 \div 5.02 \div 24.97 = ?$
$673 * 50 \div 5 \div 25 = ?$
$? = 33650 \div 5 \div 25$
$? = 6730 \div 25$
$? = 269.20$

42) Answer
$(\sqrt{121.2} + 159.9) * 32.01 - (\sqrt[3]{511.8} + 84.97) * 30.98 = ?$
$? = (\sqrt{121} + 160) * 32 - (\sqrt[3]{512} + 85) * 31$
$? = 171 * 32 - 93 * 31$
$? = 5472 - 2883$
$? = 2589$

Connect with
Kaushik Mohanty on:

43) Answer
929.8 * 0.73/3.12 * 17.98 - 55.97 * 78.02 = ?
? = 930 * 1/3 * 18 – 56 * 78
? = 310 * 18 – 4368
? = 5580 – 4368
? = 1212

44) Answer
(249.8 * 18.02 % + 1200.3 * 45.01 %) ÷ 12.98 = ?
(250 * 18 % + 1200 * 45 %) ÷ 13 = ?
? = (45 + 540) ÷ 13
? = 585/13
? = 45

45) Answer
(8399.6 * 15.03 % + 6300.4 * 8.02 %) ÷ 62.99 = ?
? = (8400 * 15 % + 6300 * 8 %) ÷ 63
? = (1260 + 504) ÷ 63
? = 1764 ÷ 63
? = 28

46) Answer
$10.98^2 + 36.02^2 + 18.01^2 = ? + (2.99 + 5.01)^2 + (12.98^2 - 4.02^2)$
$11^2 + 36^2 + 18^2 = ? + (3 + 5)^2 + (13^2 - 4^2)$
121 + 1296 + 324 = ? + 64 + 153
1741 = ? + 217
? = 1524

47) Answer
$22.99^2 + 4.01^2 - 12.98^2 + ? = 28.98^2 + 14.02^2 + (2.01^2 * 2.99^2)$
$23^2 + 4^2 - 13^2 + ? = 29^2 + 14^2 + (2^2 * 3^2)$
529 + 16 – 169 + ? = 841 + 196 + 36
? + 376 = 1073
? = 697

48) Answer
$\sqrt[3]{5831.9} * \sqrt[3]{63.98} \div \sqrt[3]{7.99} = ? + \sqrt[3]{3374.8} \div \sqrt[3]{125.1} * \sqrt[3]{511.9}$
$\sqrt[3]{5832} * \sqrt[3]{64} \div \sqrt[3]{8} = ? + \sqrt[3]{3375} \div \sqrt[3]{125} * \sqrt[3]{512}$
18 * (4 / 2) = ? + (15 / 5) * 8
36 = ? + 24
? = 12

Connect with
Kaushik Mohanty on:

49) Answer
$\sqrt[3]{1727.5} * \sqrt[3]{511.8} + 5*? = (\sqrt[3]{4095.6} * \sqrt[3]{2743.9}) + \sqrt[3]{2743.8} \div \sqrt[3]{342.9}$
$\sqrt[3]{1728} * \sqrt[3]{512} + 5*? = (\sqrt[3]{4096} * \sqrt[3]{2744}) + \sqrt[3]{2744} \div \sqrt[3]{343}$
$12 * 8 + 5*? = (16 * 14) + 14 / 7$
$96 + 5*? = 224 + 2$
$5*? = 130$
$? = 26$

50) Answer
$(155.8 \div 3.01 \div 12.99 \div 2.01) * 12.98 + 34.99 * 3.02 + 246.9 - 122.98 = ?$
$(156 \div 3 \div 13 \div 2) * 13 + 35 * 3 + 247 - 123 = ?$
$(156/3 * 1/13 * 1/2) * 13 + 105 + 247 - 123 = ?$
$(2 * 13) + 105 + 247 - 123 = ?$
$26 + 105 + 247 - 123 = ?$
$? = 255$

51) Answer
$(45.12)^{7.5} / (44.98)^{3/2} \times (44.95)^{-3} = (\sqrt{44.97})^{1/4} \times (\sqrt{45.12})^{?}$
$(45)^{7.5} / (45)^{1.5} \times (45)^{-3} = (45)^{1/4 \times 1/2 + (?/2)}$
$7.5 - 1.5 - 3 = 1/8 + ?/2$
$3 = [4 \times ? + 1]/8$
$24 = 4 \times ? + 1$
$23 = 4 \times ?$
$? = 23/4 = 5(3/4)$

52) Answer
$(57.87\ \%\ \text{of}\ 149.98 + 43.67\%\ \text{of}\ 699.69 + 39.99\%\ \text{of}\ 749.88 + 4.99)/(? + 15.69) = 27.96$
$(58\ \%\ \text{of}\ 150 + 44\%\ \text{of}\ 700 + 40\%\ \text{of}\ 750 + 5)/(?+16) = 28$
$(87 + 308 + 300 + 5)\ /28 = (? +16)$
$700/28 = (? +16)$
$25 = (? +16)$
$? = 9$

53) Answer
$(?\ \%\ \text{of}\ 399.80 + 90.27\%\ \text{of}\ 919.69)/\ 89.90 = 9.63$
$(?\ \%\ \text{of}\ 400 + 90\%\ \text{of}\ 920)/\ 90 = 10$
$(4*? + 828) = 900$
$4*? = 900 - 828$
$4*? = 72$
$? = 18$

54) Answer

Connect with
Kaushik Mohanty on:

(1.43/6.67) + (5.34 /7.01) - (? / 13.78) = 3.67/ 13.90
(1/7) + (5/7) - (? / 14) = 4/ 14
(6/7) - (?/14) = 4/14
(?/14) = 8/14
? = 8

55) Answer
(12.98/17.67) + (13.34/26.89) - (24.78/27.45) = ? / 35.69
(13 /18) + (13/27) - (25/27) = ? / 36
13/18 – 12/27 = ?/36
78 – 48 = 3?
? = 10

56) Answer
(23456.78 *4.07) + (12764.69/ 2.997) = ?
(23457 *4) + (12765/ 3) = ?
93828 + 4255 = ?
? = 98083

57) Answer
$\sqrt{x}$ = 288.08 ÷ 5.989 – 12.025 * 27.950 ÷ 5.98 + $\sqrt{2024.5}$ + $\sqrt{1090.01}$
$\sqrt{x}$ = 288 ÷ 6 – 12 * 28 ÷ 6 + $\sqrt{(2025)}$ + $\sqrt{1089}$
$\sqrt{x}$ = 48 – 56 + 45 + 33
$\sqrt{x}$ = 70
x = 4900

58) Answer
x^2 = $\sqrt{(1224.45)}$ – 619.98 ÷ 5.014 + 624.04 ÷ 7.99 + 23.021 * 8.998
x^2 = $\sqrt{(1225)}$ – 620 ÷ 5 + 624 ÷ 8 + 23 * 9
x^2 = 35 – 124 + 78 + 207
x^2 = 196
x = 14

59) Answer
x^3 = 404.95 ÷ 27.04 – 335.998 ÷ 6.99 + 314.97 ÷ 9.051 + 496.107 ÷ 7.98
x^3 = 405 ÷ 27 – 336 ÷ 7 + 315 ÷ 9 + 496 ÷ 8
x^3 = 15 – 48 + 35 + 62
x^3 = 64
x = 4

60) Answer
1296.08 ÷ 11.959 + $\sqrt{(1023.54)}$ + $\sqrt{(1295.64)}$ + 919.98 ÷ 23.014 =($\sqrt{323.68}$) * x

Connect with
Kaushik Mohanty on:

$1296 \div 12 + \sqrt{(1024)} + \sqrt{(1296)} + 920 \div 23 = \sqrt{(324)} * x$
$108 + 32 + 36 + 40 = \sqrt{(324)} * x$
$216 = 18x$
$x = 216/18$
$x = 12$

61) Answer
$2039.84 \div 7.98 + 632.12 \div 4.06 = x^2 - 25.99^2$
$2040 \div 8 + 632 \div 4 = x^2 - 26^2$
$255 + 158 = x^2 - 676$
$x^2 = 1089$
$x = 33$

62) Answer
$\sqrt[3]{(3374.65)} - 1.99^6 + 1374.91 \div 124.62 + 689.97 \div 14.98 = x^3$
$\sqrt[3]{(3375)} - 2^6 + 1375 \div 125 + 690 \div 15 = x^3$
$15 - 64 + 11 + 46 = x^3$
$8 = x^3$
$x = 2$

63) Answer
$x = 164.98 * 44.97 \div 15.08 + 239.95 * 39.96 \div 14.99 - 549.94 * 15.014 \div 24.98$
$x = 165 * 45 \div 15 + 240 * 40 \div 15 - 550 * 15 \div 25$
$x = 495 + 640 - 330$
$x = 805$

64) Answer
119.94% of 655.054 – 74.98% of 719.96 = x + 39.98% of 459.92
$(120/100) * 655 - 75\%$ of $720 = x + (40/100) * 460$
$786 - 540 = x + 184$
$246 = x + 184$
$x = 62$

65) Answer
$x^2 = 149.985\%$ of $262.06 + \sqrt[3]{(1330.95)} - 2219.96 \div 14.97$
$x^2 = 150\%$ of $262 + \sqrt[3]{(1331)} - 2220 \div 15$
$x^2 = 393 + 11 - 148$
$x^2 = 256$
$x = 16$

66) Answer
$(\sqrt[3]{4095.78}) \div (\sqrt[3]{63.901}) * (\sqrt[3]{6859.09}) = X + 1.99 * \sqrt[3]{2743.84}$

Connect with
Kaushik Mohanty on:

$\sqrt[3]{4096} \div \sqrt[3]{64} * \sqrt[3]{6859} = X + 2 * \sqrt[3]{2744}$
$16/4 * 19 = X + 2 * 14$
$76 = X + 28$
$X = 48$

67) Answer
$(\sqrt{15624.85})$ % of $(\sqrt[3]{9260.78}) * 9.91^2 = (\sqrt{575.87})*Y + \sqrt[3]{728.78}$
$\sqrt{15625}$ % of $\sqrt[3]{9261} * 10^2 = \sqrt{576}*Y + \sqrt[3]{729}$
125% of $21 * 100 = 24*Y + 9$
$125/100 * 21 * 100 = 24*Y + 9$
$2625 = 24*Y + 9$
$24*Y = 2616$
$Y = 109$

68) Answer
$2340.191 \div 17.921 + 39.958\%$ of $34.908 = (X)^3 + 722.108 \div 37.994$
$2340 \div 18 + 40\%$ of $35 = (X)^3 + 722 \div 38$
$130 + 40/100 * 35 = (X)^3 + 19$
$130 + 14 = (X)^3 + 19$
$(X)^3 = 125$
$X = 5$

69) Answer
139.891 % of $179.910 + 3003.303 \div \sqrt{1520.718} = 4.898*Y - 623.103 + 566.981$
140% of $180 + 3003 \div \sqrt{1521} = 5*Y - 623 + 567$
$140/100 * 180 + 77 = 5*Y - 56$
$252 + 77 = 5*Y - 56$
$5*Y = 385$
$Y = 77$

70) Answer
15.108% of $859.998 - 44.714\%$ of $559.8 + 74.725\%$ of $299.714 = X + 73.961 - 18.198$
15% of $860 - 45\%$ of $560 + 75\%$ of $300 = X + 74 - 18$
$129 - 252 + 225 = X + 56$
$X = 46$

71) Answer
From (I)
$784 \div 14 + 598 \div 13 + x = 99\%$ of 2500
$(784/14) + (598/13) + x = (99/100) * 2500$
$56 + 46 + x = 2475$
$x = 2475 - 102$

Connect with
Kaushik Mohanty on:

x = 2373
From (II)
221 ÷ 13 * √(576) + 100 = y
221 ÷ 13 * √(576) + 100
y = 17 * 24 + 100
y = 408 + 100
y = 508
= x – 4y = 2373 – (4 * 508)
= 2373 – 2032 = 341

72) Answer
From (I)
$15^2 + 12^2 = 11^2 + x$
225 + 144 – 121 = x
x = 248
From (II)
$6 * 6 * 6 * 6 * 6 + 6 * 6 * 6 * 6 = 81 * 3.5 * y$
7776 + 1296 = 81 * 3.5 * y
9072 = 81 * 3.5 * y
y = 32
x/y = 248/32
x/y = 7.75

73) Answer
From (I)
√(1024) * (1/2^–5) + 8^2 * 4 = x * 2^6
32 * 2^5 + 2^6 * 2^2 = x * 2^6
2^6(16 + 4) = x * 2^6
x = 20
From (II)
$15^2 + 17^2 – y = 21^2$
225 + 289 – y = 441
y = 514 – 441
y = 73
(y – 3)/x = (73 – 3)/20 = 70/20 = 3.5

74) Answer
From (I)
$9 * 9 * 9 + 6 * 6 * 6 = 1.5^x * 35 * 8$
729 + 216 = 1.5^x * 35 * 8
945 = 1.5^x * 35 * 8
$(27/8) = (3/2)^x$

Connect with
Kaushik Mohanty on:

$(3/2)^3 = (3/2)^x$
$x = 3$
From (II)
$0.005 * 10^5 * 33 - y = 60^2$
$500 * 33 - y = 3600$
$y = 16500 - 3600 = 12900$
$y/x = 12900/3 = 4300$

75) Answer
From (I)
$17^2 + 19^2 + x = 21^2 + 15^2$
$289 + 361 + x = 441 + 225$
$x = 666 - 650$
$x = 16$
From (II)
$(5175 \div 23)^{1/2} + (72 * 2)^{1/2} = (y)^{1/2}$
$225^{1/2} + 144^{1/2} = (y)^{1/2}$
$15 + 12 = y^{1/2}$
$27 = y^{1/2}$
$y^{1/2} - x^{1/2} = 7291/2 - 161/2 = 27 - 4 = 23$

76) Answer
From Series II
$x = 3x - \sqrt{7744}$
$2x = 88$
$x = 44$
From Series I
$\sqrt[3]{(1728)} \div \sqrt[3]{(8)} * \sqrt{(144)} - 25\%$ of $\sqrt[3]{4096} \div \sqrt[3]{64} + x\%$ of $300 + 200\%$ of $48 = y$
$12/2 * 12 - 25/100 * 16/4 + 44/100 * 300 + 200/100 * 48 = y$
$72 - 1 + 132 + 96 = y$
$y = 299$

77) Answer
From Series I
$\sqrt{(1024)} * 2 \div \sqrt[3]{(64)} + 33.33\%$ of $93 * 2 - 16.66\%$ of $72 * 4 + 216\%$ of $300 \div \sqrt{(81)} = x\%$ of 51
$32 * 2/4 + 1/3 * 93 * 2 - 1/6 * 72 * 4 + 216/100 * 300/9 = x/100 * 51$
$16 + 62 - 48 + 72 = 51x/100$
$102 = 51x/100$
$x = 200$
From Series II
$x/5\%$ of $375 = y$

Connect with
Kaushik Mohanty on:

200/500 *375 = y
y = 150

78) Answer
From series I
25% of 440 + 208/8 *3 + 15 * 12 = x
25/100 * 440 + 26 * 3 + 15 * 12 = x
110 + 78 + 180 = x
x = 368
From series II
357/7 *2 + 24% of 650 + 7/9 *72 = y
51 * 2 + 24/100 *650 + 7 *8 = y
102 + 156 + 56 = y
y = 314
Required sum = 368 + 314 = 682

79) Answer
From Series I
$\sqrt[3]{(5832)} *3^3 \div \sqrt{(6561)} - \sqrt[3]{(3375)} \div \sqrt{(25)} + x = \sqrt[3]{(2197)} * 2 + \sqrt[3]{(1331)} * \sqrt{(121)} - \sqrt[3]{(6859)} *6$
18 *27/81 – 15/5 + x = 13 *2 + 11 *11 – 19 *6
6 - 3 + x = 26 + 121 – 114
x = 30
From Series II
$\sqrt[3]{(729)} *\sqrt{(81)} – 7 * \sqrt[3]{(125)} * 2 + y = \sqrt[3]{(4096)} \div \sqrt{(16)} + \sqrt[3]{(2744)} \div 7 * \sqrt[3]{(512)}$
9 * 9 – 7 * 5 * 2 + y = 16/4 + 14/7 * 8
81 – 70 + y = 4 + 16
11 + y = 20
y = 9
Hence,
$x \div \sqrt[3]{(125)} *y^2 - 102 *2$
$= 30/5 * 9^2 - 204$
= 6 * 81 – 204
= 486 – 204
= 282

80) Answer
From Series I:
8% of 780 + x = 13% of 1400
8/100 *780 + x = 13/100 *1400
62.4 + x = 182
x = 119.6

Connect with
Kaushik Mohanty on:

From series II
26% of 550 + 2% of 450 – y = 5% of 680
26/100 *550 + 2/100 *450 – y = 5/100 *680
143 + 9 – y = 34
y = 143 + 9 – 34
y = 118
From series III
120% of 80 + 20% of 980 – 28% of 650 = z
120/100 *80 + 20/100 *980 – 28/100 *650 = z
96 + 196 – 182 = z
z = 110
Hence, x > y > z

81) Answer
From series I
5% of 620 + 14.28% of 777 – x = 8% of 450 + 2% of 550
5/100 *620 + 1/7 *777 – x = 8/100 *450 + 2/100 *550
31 + 111 – x = 36 + 11
142 – x = 47
x = 95
From series II
6% of 450 + 5% of 240 + 250% of 8 = y
6/100 *450 + 5/100 *240 + 250/100 *8 = y
y = 27 + 12 + 20
y = 59
From series III
35% of 240 – 150% of 12 + z = 23% of 1100
35/100 *240 – 150/100 *12 + z = 23/100 *1100
84 – 18 + z = 253
z = 187
Hence, x > y < z

82) Answer
From Series I
3400 * 5/17 + 550 * 36.36% = 100x
3400 * 5/17 + 550 * 4/11 = 100x
1000 + 200 = 100x
x = 12
From Series II
1800 * 83.33% + 1200 * 3/2 + 16 * 7 = y
1800 * 5/6 + 1200 * 3/2 + 16 * 7 = y
1500 + 1800 + 112 = y

Connect with
Kaushik Mohanty on:

y = 3412
From Series III
15 * 3 + 4 * 16 + 16% of 250 = z
15 * 3 + 4 * 16 + 16/100 * 250 = z
45 + 64 + 40 = z
z = 149
Required total = 12 + 3412 + 149 = 3573

83) Answer
From Series I
550 * 45.45% - 780 * 7.69% + 600 * 67.5% = x
550 * 5/11 – 780 * 1/13 + 600 * 67.5/100 = x
250 – 60 + 405 = x
x = 595
From Series II
640 * 55% + 700 * 45% - 800 * 64% = y
640 * 55/100 + 700 * 45/100 – 800 * 64/100 = y
352 + 315 – 512 = y
y = 155
From Series III
720 *35% + 640 *5/16 – 960 *3/16 = z
720 *35/100 + 640 *5/16 – 960 *3/16 = z
252 + 200 – 180 = z
z = 272
Required total = 595 + 155 + 272 = 1022

84) Answer
From Series I
240 * 116.66% + 320 * 62.5% + x = 8^3
240 * 7/6 + 320 * 5/8 + x = 512
280 + 200 + x = 512
x = 32
From Series II
450 * 55.55% + 64 * 3 + 78 * 14/13 = y^3 + 14
450 * 5/9 + 192 + 84 = y^3 + 14
250 + 192 + 84 = y^3 + 14
y^3 = 512
y = 8
From Series III
900 * 46.667% + 180 * 12.5 + 37 * 2 = z^3
900 * 7/15 + 180 * 12.5 + 74 = z^3
420 + 2250 + 74 = z^3

Connect with
Kaushik Mohanty on:

z = 14
Required total = 32 + 8 + 14 = 54

85) Answer
From Series I
3600 * 44.44% + 2400 * 41.66% - 54. 5 *16 = x^3
3600 * 4/9 + 2400 * 5/12 – 872 = x^3
1600 + 1000 – 872 = x^3
2600 – 872 = x^3
x^3 = 1728
x = 12
From Series II
(x * 40) * (5 * x) % + (45x) * 75% - (x + 5) * 4 = y^2
(12 * 40) * (5 * 12) % + (45 * 12) * 75/100 – (12 + 5) * 4 = y^2
480 * 60/100 + 540 * 75/100 – 17 * 4 = y^2
288 + 405 – 68 = y^2
y^2 = 625
y = 25
From Series III
(20x + 24y) * (y/2) % + 780 * (x + 3) % + (2y + x + 5) = z^2
(20 * 12 + 24 * 25) * (25/2) % + 780 * (12 + 3) % + (2 * 25 + 12 + 5) = z^2
(240 + 600) * 12.5/100 + 780 * 15/100 + (50 + 17) = z^2
840 * 12.5/100 + 780 * 15/100 + 67 = z^2
105 + 117 + 67 = z^2
z^2 = 289
z = 17
To find the value of M
M = 2x + 3y – 4z
M = 2 *12 + 3 * 25 – 4 * 17
M = 24 + 75 – 68
M = 99 – 68
M = 31

86) Answer
From series I,
79.998 % of 279.891 + 45.342 * 17.917 – 75.213 * 6.031 = 5.071X^3 - 741.191 ÷ 18.903 - 2.071
80% of 280 + 45 * 18 – 75 * 6 = 5X^3 – 741 ÷ 19 - 2
80/100 * 280 + 810 – 450 = 5X^3 – 41
224 + 810 – 450 = 5X^3 – 41
5X^3 = 625
X^3 = 125

Connect with
Kaushik Mohanty on:

X = 5
From series II,
2340.192 ÷ 17.921 + 28.105 % of 599.802 = Y^3 - 4.981 * 8.997
2340 ÷ 18 + 28% of 600 = Y^3 – 5 * 9
130 + 168 = Y^3 – 45
Y^3 = 343
Y = 7
Required value = √ (3X + 4Y + 6) = √ (15 + 28 + 6) = √49 = 7

87) Answer
From series I,
623.103 + 566.971 + 551.334 – (√7921.107) * 6.208 = X + 191.998
623 + 567 + 551 - √7921 * 6 = X + 192
1741 - 89 * 6 = X + 192
1741 – 534 = X + 192
X = 1015
From series II,
11.032 + 73.962 - 18.192 + 25.109% of 479.910 - 50.017 * 1.998 = Y - 59.862
11 + 74 – 18 + 25% of 480 – 50 * 2 = Y - 60
67 + 25/100 * 480 – 100 = Y - 60
120 – 33 = Y - 60
Y = 147
Required average = (147 + 1015)/2 = 581

88) Answer
From series I,
(√1680.909) * 1.990 - 189.950 + 44.923% of 519.981 = X - 39.988 % of √4224.785
√1681 * 2 – 190 + 45% of 520 = X – 40% of √4225
41 * 2 – 190 + 45/100 * 520 = X – 40/100 * 65
82 – 190 + 234 = X – 26
X = 152
From series II
39.998% of 34.908 + 28.085 * 21.908 + 15.988 * 13.912 = Y + 12.235 + 15.224
40% of 35 + 28 * 22 + 16 * 14 = Y + 12 + 15
14 + 616 + 224 = Y + 27
Y = 827
Required difference = 827 – 152 = 675

89) Answer
From series I,
150.097% of 144.181 + 551.341 + 114.985 + X = 243.051 * 3.989
150% of 144 + 551 + 115 + X = 243 * 4

Connect with
Kaushik Mohanty on:

150/100 * 144 + 666 + X = 972
216 + 666 + X = 972
X = 972 – 882
X = 90
From series II,
74.895% of 599.982 - 3599.965 ÷ 179.781 + 28.898 * 14.771 = 1.912^3 * Y + 3422.987 ÷ 7.095
75% of 600 – 3600 ÷ 180 + 29 * 15 = 2^3 * Y + 3423 ÷ 7
75/100 * 600 – 20 + 435 = 8Y + 489
865 = 8Y + 489
8Y = 376
Y = 47
Required value = Y – X/3 = 47 – 90/3 = 17

90) Answer
From series I,
(√15624.85) % of 499.87 + 7.89 * 367.78 ÷ 22.78 = X + 1.90
√15625% of 500 + 8 * 368 ÷ 23 = X + 2
125% of 500 + 8 * 16 = X + 2
625 + 128 = X + 2
X = 751
From series II,
(√1520.78) * ($\sqrt[3]{13823.78}$) ÷ (√675.87) = √Y + 24.78% of 39.78
√1521 * $\sqrt[3]{13824}$ ÷ √676 = √Y + 25% of 40
39 * 24/26 = √Y + 25/100 * 40
36 = √Y + 10
√Y = 26
Y = 676
Required sum = 5 + 7 = 12

91) Answer
From series I,
($\sqrt[3]{15624.901}$) % of ($\sqrt[3]{63.89}$) = X - 1070.901 ÷ ($\sqrt[3]{4913.091}$)
($\sqrt[3]{15625}$) % of $\sqrt[3]{64}$ = X - 1071 ÷ $\sqrt[3]{4913}$
25% of 4 = X - 1071/17
1 = X - 63
X = 64
From series II,
(√255.69) * ($\sqrt[3]{3374.78}$) - Y^2 - ($\sqrt[3]{2197.47}$) = ($\sqrt[3]{42875.017}$) – ($\sqrt[3]{35936.86}$)
√256 * $\sqrt[3]{3375}$ - Y^2 - $\sqrt[3]{2197}$ = $\sqrt[3]{42875}$ - $\sqrt[3]{35937}$
16 * 15 - Y^2 - 13 = 35 – 33
240 – 13 - Y^2 = 2

Connect with
Kaushik Mohanty on:

$Y^2 = 225$
$Y = 15$
Required value = $\sqrt{}$ (64 – 15) = $\sqrt{49} = 7$

92) Answer
From set I,
$\sqrt[3]{}15624.89 + 15.08\%$ of 879.99 – $\sqrt{1520.91} * 11.12 + 15.98 * \sqrt{1224.64} = (\sqrt{15129.16})\%$ of 499.95 – X
$\sqrt[3]{}15625 + 15\%$ of 880 – $\sqrt{1521} * 11 + 16 * \sqrt{1225} = \sqrt{15129}\%$ of 500 – X
25 + 15/100 * 880 – 39 * 11 + 16 * 35 = 123/100 * 500 – X
25 + 132 – 429 + 560 = 615 – X
X = 327
From set II,
$(\sqrt{1224.67})\%$ of 179.97 + $\sqrt{840.78}$ - 719.89 ÷ $\sqrt{64.03} + 48.19 * \sqrt{25.25} = Y$
$(\sqrt{1225})\%$ of 180 + $\sqrt{841}$ - 720 ÷ $\sqrt{64} + 48 * \sqrt{25} = Y$
35% of 180 + 29 – 720/8 + 48 * 5 = Y
35/100 * 180 + 29 – 90 + 240 = Y
63 + 29 – 90 + 240 = Y
Y = 242
Difference between the value of X and Y = 327 – 242 = 85

93) Answer
From set I,
35.84% of 750.14 – 241.87 + 1119.78 ÷ 6.99 + 840.45 ÷ 11.67 = X + 59.89^2 ÷ 3.12^3 - 7.92 * 122.92
36% of 750 – 242 + 1120 ÷ 7 + 840 ÷ 12 = X + 60^2 ÷ 3^2 - 8 * 123
36/100 * 750 – 242 + 160 + 70 = X + 3600 ÷ 9 - 984
270 – 12 = X + 400 – 984
258 = X – 584
X = 842
From set II,
14.99 * $\sqrt{143.98} + \sqrt[3]{}124.91 * 15.92 = Y + 22.01 - 20.03 + 19.67 - 238.14 - 14.31$
15 * $\sqrt{144} + \sqrt[3]{}125 * 16 = Y + 22 – 20 + 20 – 238 – 14$
15 * 12 + 5 * 16 = Y -230
180 + 80 = Y – 230
Y = 490
Required sum = $\sqrt[3]{}$ (842 + 490 - 1) = $\sqrt[3]{1331} = 11$

94) Answer
From set I,
$(\sqrt{1295.61})\%$ of 449.87 ÷ 8.78 + 77.98% of 250.02 – 5364.72 ÷ 36.87 + X = 23.61% of 549.71 + 53.65% of 699.78

Connect with
Kaushik Mohanty on:

(√1296) % of 450 ÷ 9 + 78% of 250 - 5365 ÷ 37 + X = 24% of 550 + 54% of 700
36% of 450 ÷ 9 + 78/100 * 250 – 145 + X = 24/100 * 550 + 54/100 * 700
18 + 195 – 145 + X = 132 + 378
68 + X = 510
X = 442
From set II,
35.45% of 79.87 + 124.64% of 47.74 – 55.45% of 40.12 = Y + 1957.87 ÷ 88.98 + 6.81 * 11.22 - 11.33 * 5.65
35% of 80 + 125% of 48 – 55% of 40 = Y + 1958 ÷ 89 + 7 * 11 - 11 * 6
35/100 * 80 + 125/100 * 48 – 55/100 * 40 = Y + 22 + 77 - 66
28 + 60 – 22 = Y + 33
Y = 33
Required difference = 442 – 33 = 409

95) Answer
From set I
608.08 ÷ 37.91 + √143.78 * 12.89 = X + 45.08 * √575.87 - 125.02 * √144.45 + 948.05 ÷ √6240.97
608 ÷ 38 + √144 * 13 = X + 45 * √576 - 125 * √144 + 948 ÷ √6241
16 + 12 * 13 = X + 45 * 24 - 125 * 12 + 948 ÷ 79
16 + 156 = X + 1080 – 1500 + 12
172 = X – 408
X = 580
From set II,
965.32 + 324.89 + 7.23 - 45.23 - 45.07% of 459.84 = Y - 74.89% of 599.98 – 77.87% of 250 + 237.73 ÷ 16.69
965 + 325 + 7 – 45 - 45% of 460 = Y – 75% of 600 – 78% of 250 + 238 ÷17
1252 – 207 = Y – 75/100 * 600 – 78/100 * 250 + 14
1045 = Y – 450 – 195 + 14
1045 = Y – 631
Y = 1676
Required ratio = 580: 1676
= 145: 419

96) Answer
From set I,
25.09% of 839.90 - 50.01 * 1.98 + 45.09 * 3.998 - √1680.09 * 1.990 = X - 15.08% of 879.99
25% of 840 – 50 * 2 + 45 * 4 - √1681 * 2 = X - 15% of 880
25/100 * 840 – 100 + 180 – 41 * 2 = X - 15/100 * 880
210 – 100 + 180 – 82 = X - 132
208 = X – 132
X = 340

Connect with
Kaushik Mohanty on:

From set II,
55.25% of 279.87 + 7.15% 299.81 + 35.86% of 549.8 – 13.81% of 650.45 = Y + 13.13% of 99.99 + 188.88
55/100 * 280 + 7% of 300 + 36% of 550 – 14% of 650 = Y + 13% of 100 + 189
154 + 21 + 36/100 * 550 - 14/100 * 650 = Y + 13/100 * 100 + 189
175 + 21 + 198 - 91 = Y + 13 + 189
282 = Y + 202
Y = 80
Required sum = 340 + 80 = 420

97) Answer
$x = 15.01^2 - 13.03^2 + 7.99^3 - 5.02^3 + 21.30$
$x = 15^2 - 13^2 + 8^3 - 5^3 + 21$
x = 225 – 169 + 512 – 125 + 21
x = 464
$y = \sqrt[3]{1728.08} + \sqrt{(26.06 * 103.96)} + 11.01^2$
$y = \sqrt[3]{1728} + \sqrt{(26 * 104)} + 11^2$
$y = 12 + \sqrt{(13 * 2 * 8 * 13)} + 121$
y = 12 + 4 * 13 + 121
y = 185
Solution:
The value of $[(y^2/25 – x^2/ (32 * 8)]$
$= (185 * 185)/25 – (464 * 464)/ (32 * 8)$
= 37 * 37 – 29 * 29
= 1369 – 841
= 528

98) Answer
I: 19.97% of 349.89 + 16.06% 0f 325.12 = 170.08% of 149.92 - X
20% of 350 + 16% 0f 325 = 170% of 150 - X
2 * 35 + 4 * 13 = 17 * 15 - X
70 + 52 = 255 - X
X = 133
II: Y% of 49.99 – 25.05 * 16.02 = 339.84 ÷ 17.03 – 159.97
Y% of 50 – 25 * 16 = 340 ÷ 17 – 160
Y/2 – 400 = 20 – 160
Y/2 = 260
Y = 520
Solution:
The value of (Y ÷ 13) + (X + 7)/28
= (520 ÷ 13) + (133 + 7)/28
= 40 + 140/28

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= 40 + 5
= 45

99) Answer
I : $38.02^2 + 41.01^2 + 124.97 * 11.99 \div \sqrt{35.98} = X^3$
$38^2 + 41^2 + 125 * 12 \div \sqrt{36} = X^3$
$1444 + 1681 + 250 = X^3$
$X^3 = 3375$
$X = 15$
$(68.12 \div 14.91) * (989.9 \div 51.1) + y = (55.55 \div 76.7) * (693.3 \div 3.7)$
$(68/15) * (990/51) + y = (56/77) * (693/4)$
$88 + y = 126$
$y = 38$
$26.01^3 \div 12.97^3 * 4.78 + 21.99^3 \div 11.01^3 * 3 = z^2 - 252.21 \div 6.97$
$26^3 \div 13^3 * 5 + 22^3 \div 11^3 * 3 = z^2 - 252 \div 7$
$(13^3 * 2^3) \div 13^3 * 5 + (11^3 * 2^3) \div 11^3 * 3 = z^2 - 36$
$2^3 * 5 + 2^3 * 3 + 36 = z^2$
$z^2 = 40 + 24 + 36$
$z^2 = 100$
$z = 10$
$x < y > z$

100) Answer
$78.12 * 95.79 \div 311.8 * 24.98 \div X = X * 1044.2 \div 173.6$
$78 * 96 \div 312 * 25 \div X = X * 1044 \div 174$
$24 * 25/X = X * 6$
$X^2 = 100$
$X = 10$
$\sqrt[3]{\{15.01 + (\sqrt{323.95}) + 3007.02 \div 96.97\}} * \sqrt[3]{(10624.01 + 23.99)} = y * 7.88$
$\sqrt[3]{\{15 + (\sqrt{324}) + 3007 \div 97\}} * \sqrt[3]{(10624 + 24)} = y * 8$
$\sqrt[3]{\{15 + 18 + 31\}} * \sqrt[3]{10648} = y * 8$
$\sqrt[3]{64} * \sqrt[3]{10648} = y * 8$
$4 * 22/8 = y$
$y = 11$
$[\sqrt[3]{46655.98]}$ % of $19.96^3 - [\sqrt[3]{15625.01}]$ % of $64.02^2 = z^3 - 1023.01 \div 2.99$
$\sqrt[3]{46656}$% of $20^3 - \sqrt[3]{15625}$% of $64^2 = z^3 - 1023/3$
36% of 8000 – 25% of 4096 = $z^3 - 341$
$2880 - 1024 + 341 = z^3$
$2197 = z^3$
$z = 13$
$x < y < z$

Connect with
Kaushik Mohanty on:

CAREER DEFINER

REVISION SHEET (PART - 2)

WITH DETAILED SOLUTIONS

KAUSHIK MOHANTY

More than 8 Years Experience

Direction (1-20): What will come in the place of the question mark (?) in the following expression?

निर्देश (1-20): निम्नलिखित अभिव्यक्ति में प्रश्न चिह्न (?) के स्थान पर क्या आएगा?

1) $18 + [75 - 2\{4 \times 2(29 - \overline{18 + 40 \div 5})\}] = ?$
   a) 55
   b) 40
   c) 45
   d) 50
   e) None of these

2) $48 - 3(10 + 18 \div 6 \times 2 - 3 \times 2) + 20 = ?$
   a) 38
   b) 36
   c) 40
   d) 42
   e) None of these

3) $56 + 15 - 5 * 0.8 \text{ of } 15 - \{35 \div (19 - 12)\} = ?$
   a) 8
   b) 6
   c) 10
   d) 12
   e) None of these

4) $\frac{5}{3} \times \frac{13}{5} \div \frac{4}{9} - \frac{7}{4} = ?$
   a) 12
   b) 10
   c) 8
   d) 14
   e) None of these

5) $2\frac{1}{3} + 3\frac{3}{4} + 3\frac{1}{2} - 4\frac{1}{5} \times \frac{5}{12} = ?$

a) $5\frac{5}{6}$
b) $7\frac{2}{3}$
c) $5\frac{2}{3}$
d) $7\frac{5}{6}$
e) None of these

6) $17\frac{6}{7} \times 3\frac{1}{5} - 2\frac{5}{7} \times 8\frac{2}{5} = ?$
a) $34\frac{12}{35}$
b) $77\frac{22}{35}$
c) $57\frac{4}{5}$
d) $77\frac{1}{5}$
e) None of these

7) 60% of $\left(\frac{2}{7}\right)$ of $\left(\frac{2}{9}\right)$ of $\left(\frac{2}{5}\right)$ of $\left(\frac{2}{3}\right)$ of $1890 = ?$
a) 18.2
b) 17.2
c) 19.2
d) 16.2
e) None of these

8) $\sqrt[3]{91125} \times \sqrt{1024} - ?^2 = 144$
a) 28
b) 32
c) 34
d) 36
e) None of these

9) $? + \left(\sqrt{20736} * 9\right) - \left(\sqrt{932 + \sqrt{841}}\right) = (45)^2$
a) 760
b) 780

c) 720
d) 840
e) None of these

10) $\frac{\sqrt{0.0009} \times \sqrt[3]{1000000}}{\sqrt[3]{0.216} \times \sqrt[3]{0.008}} \times 0.16 = ?$
a) 6
b) 8
c) 4
d) 2
e) None of these

11) $\sqrt{? + \sqrt{95 - \sqrt{934 + \sqrt{747 - \sqrt{312 + 12}}}}} = 49$
a) 2456
b) 2393
c) 3457
d) 4321
e) None of these

12) $(1089)^{1/2} \times 1331 = 121 \times ?^2 \times 3$
a) 16
b) 15
c) 12
d) 11
e) None of these

13) $9 \times 9 \times 9 + 6 \times 6 \times 6 = (1.5)^{?} \times 35 \times 8$
a) 5
b) 4
c) 3
d) 2
e) None of these

14) $[(8^4 \div 512 \times 4^6 \div 128 \div 32)]^{(?)} = 2^{15}$
a) 5
b) 4
c) 6
d) 7
e) None of these

15) $\frac{27^{2.3} \times 81^{2.6} \times 27^{46.3}}{27^{5.3}} = 27^{0.1} \times 3^{?}$
a) 130
b) 120
c) 140
d) 115
e) None of these

16) 84% of $1500 + \frac{3}{13} * 2340 = ?\%$ of $3000 + 180$
a) 45
b) 54
c) 67
d) 76
e) None of these

17) $\sqrt{1764} \times 5 + (28 * 10 + 62 * 10) = ?^2 - 40\%$ of 465
a) 62
b) 52
c) 32
d) 36
e) None of these

18) 28% of 25% of $1200 + 32\%$ of $2300 = ?\%$ of 2000
a) 41
b) 68
c) 56
d) 72

e) None of these

19) $9\times(?) - 30\%$ of $3200 = 60\%$ of $(?) + 96\%$ of 6000
a) 500
b) 300
c) 800
d) 600
e) None of these

20) 87% of $300 + 62.5\%$ of $\left(\sqrt{841} - \sqrt{441}\right) + 10\%$ of $? = (19)^2$
a) 620
b) 950
c) 540
d) 720
e) None of these

21) If $x = 77.77\%$ of $1206 + 52\%$ of $350 - 48\%$ of 450 then find the value of $(2x+32)$.
a) 1740
b) 1640
c) 1840
d) 1540
e) None of these

22) If $x = \sqrt[3]{37.5\% \text{ of } 480 + 5\% \text{ of } 120 + 30}$ then find the value of $\sqrt[3]{(x^2 - 9)}$
a) 3
b) 4
c) 2
d) 1
e) None of these

Direction (23-25): In the question, two equations are given. You have to solve both the equations to establish the correct relation between x and y and choose the correct option.

दिशा (23-25): प्रश्न में दो समीकरण दिए गए हैं। आपको x और y के बीच सही संबंध स्थापित करने के लिए दोनों समीकरणों को हल करना होगा और सही विकल्प चुनना होगा।

23) $x = 760 - \sqrt{841} * 12 - 240 - \sqrt{5184}$

$y = 35\%$ of $60 + 80\%$ of $140 - \sqrt{16} * 5$

a) x>y
b) x<y
c) x=y, or the relationship cannot be established
d) x>=y
e) x<=y

24) 18% of $x + 35\%$ of $480 = 213$

$16 * 21 + \sqrt{2916} = y + 1530 \div 17$

a) x>y
b) x<y
c) x=y, or the relationship cannot be established
d) x>=y
e) x<=y

25) $x = 5\frac{1}{4} + 8\frac{3}{4} - 6\frac{1}{5} - 3\frac{1}{2}$

$y = \frac{11}{27} \times \frac{9}{55} \times \frac{3}{8}$ of 108

a) x>y
b) x<y
c) x=y, or the relationship cannot be established
d) x>=y
e) x<=y

Direction (26-45): What is the approximate value should come in place of question mark in the following questions?
निर्देश (26-45): निम्नलिखित प्रश्नों में प्रश्न चिह्न के स्थान पर अनुमानित मान क्या आना चाहिए?

26) $[\ 2459.84 - (60.21 * 24.89)\ ] \div 14.81 = ? + 11.3$

a) 50

b) 57
c) 61
d) 53
e) 63

27) $419.84 \div 6.71 + 7.07 * 3.97 + ? * 12.71 = 60.69 * 4.04$
a) 6
b) 12
c) 10
d) 18
e) 16

28) $(18.18 * 49.67) \div 9.87 - 2380.23 \div 139.91 = ? - 51.74$
a) 125
b) 135
c) 140
d) 120
e) 110

29) $\frac{6.87}{49.84} of\ 3050.35 - \frac{4.73}{9} of \frac{6.84}{2.5}\ of\ 72.27 = ?$
a) 319
b) 321
c) 315
d) 307
e) 297

30) $6\frac{1}{5} - 4\frac{5}{6} - ? = 2\frac{5}{12} - 5\frac{3}{4} - 3\frac{7}{8}$ (Approx)
a) 12
b) 15
c) 17
d) 5
e) 9

31) $\sqrt{(8835.83)} \times 2.86 \times 50\% + \sqrt{(5040.89)} \times 6.01 \times 7.95 - \sqrt{(1850.09)} \times 4.05 \times 3.02 = ?$

a) 3033
b) 3133
c) 4526
d) 3765
e) None of these

32) $0.04 \times 0.5 \times 0.243 \times 11.11\% + 0.008 \times 0.5 + 27.85 - 22.05 + \sqrt{1521.21} = ?$

a) 45
b) 48
c) 39
d) 50
e) 48

33) $(2145.237 \times 5.9) - 1456.895 + 1091.237 - 645.231 + (33 \times 1.23) = ?$

a) 11884
b) 11892
c) 11898
d) 11854
e) None of these

34) $498.85 \times 89.92 + 327.89 + 462.05 - 136.38 \times 98.98 = ?$

a) 31562
b) 32561
c) 32236
d) 33654
e) None of these

35) $\sqrt{50625.24} \div 74.95 + \sqrt{570} \times 14.148 - 109.3 = ?$

a) 212
b) 220
c) 230
d) 236
e) None of these

36) $239.95 \times 129.99\% \div 76.17 + 178.17 - 94.94 = ?$
a) 87
b) 88
c) 89
d) 83
e) 84

37) $3322.1 \times 11.11 + 2233.1 \times 11.01 + 4554.41 \times 10.91 + 5454.87 \times 12.11 - 6556.1 \times 11.10 = ?$
a) 104543
b) 123565
c) 102310
d) 105426
e) None of these

38) ?% of $(5627.89 \div 7.08) = 4596.01 - 4253.06$
a) 41
b) 43
c) 45
d) 47
e) 48

39) 8% of 2249.9898 + 7.0 of 4520.332 -1000.99 = ?
a) 29865
b) 30819
c) 31564
d) 25642
e) None of these

40) $(26.912)^2 \times (16.16)^3 \div (8.12)^2 + (7.03)^3 + 41.41 = ? - 225.25 \times 119.91\%$
a) 45698
b) 46230
c) 47120
d) 47310
e) None of these

41) $(1141.14 + ?) \div 3.02 = 1824.25 \div 4.01 + 62.55 \times 14.28\%$
a) 256
b) 254
c) 365
d) 224
e) None of these

42) 79.79% of $275.12 \div 11.06 = ? \times 14.82 - 204.56$
a) 11
b) 12
c) 15
d) 18
e) None of these

43) $55.997 \times 49.993 - ?\%$ of $6000.009 = (13.899)^2 + 50.896 \times 4.003$
a) 40
b) 18
c) 20
d) 19
e) None of these

44) $(? - 364.08)/ 35.98 + 124.99\%$ of $48.03 - (361.06)^{1/2} = (729.11)^{1/3}$
a) -140
b) -120
c) -125
d) 102
e) None of these

45) $? \times 4 + 118.09 - 28.06 \times 5.14 = 164.19$
a) 44.5
b) 46.5
c) 48.25
d) 44.6
e) None of these

46) If x = 8.33% of 1727.98+34.89 % of 319.87 – 55.79% of 250.05 then find the approximate value of (2.5x +35 × 2.4).
a) 348
b) 374
c) 381
d) 268
e) None of these

47) If $x = 8.19\%\ of\ 249.94 + 33.33\%\ of\ 134.94 + (21.11 * 60.19) + 75.96$ then find the approximate value of $\sqrt{(x + 43)}$
a) 18
b) 34
c) 32
d) 38
e) None of these

Direction (48-50): In the question, two equations are given. You have to solve both the equations to establish the correct relation between x and y and choose the correct option.
दिशा (48-50): प्रश्न में दो समीकरण दिए गए हैं। आपको x और y के बीच सही संबंध स्थापित करने के लिए दोनों समीकरणों को हल करना होगा और सही विकल्प चुनना होगा।

48) x = 364.84 + 71.97% of 849.87 – 899.71
y = 16.21% of 80.12 +20.11% of 63.91)× 4.87
a) x>y
b) x<y
c) x=y, or the relationship cannot be established
d) x>=y
e) x<=y

49) x = (6599.84 ÷ 11.21 ÷ 7.84 + 1345.14) ÷ 283.891
y = (144.14 × 4.86 + 319.91 − 899.79) ÷ 34.81
a) x>y
b) x<y

c) x=y, or the relationship cannot be established
d) x>=y
e) x<=y

50) $x \div 4.04 = (22.81 \times 3.63 + 207.72) \div 29.81$

$y \times 11.89 = 21.93^2 - (128.12 \div 15.84 - 4)$

a) x>y
b) x<y
c) x=y, or the relationship cannot be established
d) x>=y
e) x<=y

CAREER DEFINER

Any Error or Doubts Found

Please mail us :-

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SOLUTION

1) Answer C

$18 + [75 - 2\{4 \times 2(29 - \overline{18 + 40 \div 5})\}] = ?$

$18 + [75 - 2\{4 \times 2(29 - 26)\}] = ?$

$18 + [75 - 2\{4 * 2\ (3)] = ?$

$18 + [75 - 2\{24\}] = ?$

$18 + [75 - 48\ ] = ?$

$18 + 27 = ?$

$45 = ?$

2) Answer A

$48 - 3(10 + 18 \div 6 \times 2 - 3 \times 2) + 20 = ?$

$48 - 3(10 + 3 * 2 - 6\ ) + 20 = ?$

$48 - 3(10 + 6 - 6\ ) + 20 = ?$

$48 - 3\ (10) + 20 = ?$

$48 - 30 + 20 = ?$

$38\ = ?$

3) Answer B

$56 + 15 - 5 * 0.8\ \text{Of}\ 15 - \{35 \div (19 - 12)\} = ?$

$56 + 15 - 5*0.8\ \text{Of}\ 15 - \{35 \div 7\} = ?$

$56 + 15 - 5*0.8\ \text{Of}\ 15 - 5 = ?$

$56 + 15 - 60 - 5 = ?$

$71 - 65 = ?$

$6\ = ?$

4) Answer C

$\frac{5}{3} \times \frac{13}{5} \div \frac{4}{9} - \frac{7}{4} = ?$

$\frac{5}{3} \times \frac{13}{5} \times \frac{9}{4} - \frac{7}{4} = ?$

$\frac{5}{3} \times \frac{13}{5} \times \frac{9}{4} - \frac{7}{4} = ?$

$\frac{117}{12} - \frac{7}{4} = ?$

$\frac{117 - 21}{12} = ?$

$\frac{96}{12} = ?$

$8 = ?$

5) Answer D

$2\frac{1}{3} + 3\frac{3}{4} + 3\frac{1}{2} - 4\frac{1}{5} \times \frac{5}{12} = ?$

$\frac{7}{3} + \frac{15}{4} + \frac{7}{2} - \frac{21}{5} * \frac{5}{12} = ?$

$\frac{7}{3} + \frac{15}{4} + \frac{7}{2} - \frac{7}{4} = ?$

$\frac{28 + 45 + 42 - 21}{12} = ?$

$\frac{94}{12} = ?$

$7\frac{5}{6} = ?$

6) Answer A

$17\frac{6}{7} \times 3\frac{1}{5} - 2\frac{5}{7} \times 8\frac{2}{5} = ?$

$\frac{125}{7} \times \frac{16}{5} - \frac{19}{7} \times \frac{42}{5} = ?$

$\frac{400}{7} - \frac{114}{5} = ?$

$\frac{2000 - 798}{35} = ?$

$\frac{1202}{35} = ?$

$34\frac{12}{35} = ?$

7) Answer C

$60\%\ \text{Of}\ \left(\frac{2}{7}\right)\ \text{Of}\ \left(\frac{2}{9}\right)\ \text{Of}\ \left(\frac{2}{5}\right)\ \text{Of}\ \left(\frac{2}{3}\right)\ \text{Of}\ 1890\ = ?$

$\frac{3}{5} * \frac{2}{7} * \frac{2}{9} * \frac{2}{5} * \frac{2}{3} * 1890 = ?$

$19.2 = ?$

8) Answer D

$\sqrt[3]{91125} \times \sqrt{1024} - ?^2 = 144$

$45 * 32 - 144 = ?^2$

$1440 - 144 = ?^2$

$1296 = ?^2$

$36\ ?$

9) Answer A

$? + \left(\sqrt{20736} * 9\right) - \left(\sqrt{932 + \sqrt{841}}\right) = (45)^2$

$? + (144 * 9) - \left(\sqrt{932 + 29}\right) = 2025$

$? = 2025 - 1296 + \left(\sqrt{961}\right)$

$? = 729 + 31$

$? = 760$

10) Answer C

$\frac{\sqrt{0.0009} \times \sqrt[3]{1000000}}{\sqrt[3]{0.216} \times \sqrt[3]{0.008}} \times 0.16 = ?$

$\frac{0.03 \times 100}{0.6 * 0.2} \times 0.16 = ?$

$4 = ?$

11) Answer B

$\sqrt{? + \sqrt{95 - \sqrt{934 + \sqrt{747 - \sqrt{312 + 12}}}}} = 49$

$\sqrt{? + \sqrt{95 - \sqrt{934 + \sqrt{747 - 18}}}} = 49$

$\sqrt{? + \sqrt{95 - \sqrt{934 + 27}}} = 49$

$\sqrt{? + \sqrt{95 - 31}} = 49$

$\sqrt{? + \sqrt{64}} = 49$

$\sqrt{? + 8} = 49$

$? + 8 = 49^2$

$? = 2401 - 8$

$? = 2393$

12) Answer D

$(1089)^{1/2} \times 1331 = 121 \times ?^2 \times 3$

$\sqrt{1089} \times 1331 = 121 \times ?^2 \times 3$

$33 \times 1331 = 121 \times ?^2 \times 3$

$43893 = 121 \times ?^2 \times 3$

$43893 / 3 = 121 * ?^2$

$14631 = 121 * ?^2$

$14631 / 121 = ?^2$

$\sqrt{121} = ?^2$

$11 = ?$

13) Answer C

$9 \times 9 \times 9 + 6 \times 6 \times 6 = (1.5)^? \times 35 \times 8$

$729 + 216 = (1.5)^? \times 280$

$945/280 = (1.5)^?$

$3.375 = (1.5)^?$

$? = 3$

14) Answer A

$[(8^4 \div 512 \times 4^6 \div 128 \div 32)]^{(?)} = 2^{15}$

$(8 \times 1)^? = 2^{15}$

$(2^3)^? = 2^{15}$

$(2^3)^5 = 2^{15}$

$? = 5$

15) Answer C

$\frac{27^{2.3} \times 81^{2.6} \times 27^{46.3}}{27^{5.3}} = 27^{0.1} \times 3^{?}$

$27^{2.3} \times (9)^{5.2} \times 27^{41} = 27^{0.1} \times 3^{?}$

$3^{6.9} \times 3^{10.4} \times 3^{123} = 3^{0.3} \times 3^{?}$

$3^{140} = 3^{?}$

16) Answer B

$84\%\ \text{Of}\ 1500 + \frac{3}{13} * 2340 = ?\%\ \text{Of}\ 3000 + 180$

$84 * 15 + 3 * 180 = ? * 30 + 180$

$1260 + 540 = ?* 30 + 180$

$1800 - 180 = ? * 30$

$1620 / 30 = ?$

$54 = ?$

17) Answer D

$\sqrt{1764} \times 5 + (28 * 10 + 62 * 10) = ?^2 - 40\%\ \text{Of}\ 465$

$210 + 900 = ?^2 - 186$

$1296 = ?^2$

$36 = ?^2$

18) Answer A

$28\%\ \text{Of}\ 25\%\ \text{Of}\ 1200 + 32\%\ \text{Of}\ 2300 = ?\%\ \text{Of}\ 2000$

$84 + 736 = ?* 20$

$820 = ?* 20$

$41 = ?$

19) Answer C

$9*(?) - 30\%\ \text{Of}\ 3200 = 60\%\ \text{Of}\ (?) + 96\%\ \text{Of}\ 6000$

$9*(?) - 960 = 60\%\ \text{Of}\ (?) + 5760$

$9*(?) - 0.60\ \text{Of}\ (?) = 6720$

$?(9 - 0.60) = 6720$

$?*8.4 = 6720$

$? = 6720/8.4$

$? = 800$

20) Answer B

87% of $300 + 62.5\%$ of $\left(\sqrt{841} - \sqrt{441}\right) + 10\%$ of $? = (19)^2$

$261 + 62.5\%$ of $(29 - 21) + 10\%$ Of $? = 361$

$261 + 5 + 10\%$ of $? = 361$

10% of $? = 95$

$? = 95 * 10$

$? = 950$

21) Answer C

$x = 77.77\%$ Of $1206 + 52\%$ Of $350 - 48\%$ Of 450

$x = 7/9 * 1206 + 0.52*350 - 0.48 * 450$

$x = 938 + 182 - 216$

$x = 904$

$2x + 32 = 2*904 + 32 = 1840$

22) Answer A

$x = \sqrt[3]{37.5\%\text{ Of }480 + 5\%\text{ Of }120 + 30}$

$x = \sqrt[3]{180 + 6 + 30}$

$x = \sqrt[3]{216}$

$x = 6$

$\sqrt[3]{x^2 - 9} = \sqrt[3]{6^2 - 9} = \sqrt[3]{36 - 9} = \sqrt[3]{27} = 3$

23) Answer B

$x = 760 - \sqrt{841} * 12 - 240 - \sqrt{5184}$

$x = 760 - 29 * 12 - 240 - 72$

$x = 760 - 348 - 240 - 72$

$x = 100$

$y = 35\%$ Of $60 + 80\%$ Of $140 - \sqrt{16} * 5$

$y = 0.35 * 60 + 0.8*140 - 4 *5$

$y = 21 + 112 - 20$

$y = 113$

$x < y$

24) Answer B

18% Of x + 35% Of 480 = 213

0.18x + 0.35*480 = 213

0.18x = 213 – 168

0.18x = 45

x=250

$16 * 21 + \sqrt{2916} = y + 1530 \div 17$

336 + 54 = y + 90

y = 336 + 54 – 90

y = 300

x<y

25) Answer A

$x = 5\frac{1}{4} + 8\frac{3}{4} - 6\frac{1}{5} - 3\frac{1}{2}$

$x = \frac{21}{4} + \frac{35}{4} - \frac{31}{5} - \frac{7}{2}$

$x = \frac{105+175-124-70}{20}$

x = 86/20 = 4.3

$y = \frac{11}{27} \times \frac{9}{55} \times \frac{3}{8}$ Of 108

$y = \frac{1}{5*8}$ Of 108

y = 27/10 = 2.7

x>y

26) Answer D

[2459.84 – (60.21 * 24.89)] ÷ 14.81 = ? + 11.3

[2460 − (60 * 25)] ÷ 15 =? +11

[2460 – 1500]÷ 15 − 11 = ?

960/15 – 11 = ?

? = 64 – 11

? = 53

27) Answer B

$419.84 \div 6.71 + 7.07 * 3.97 + ? * 12.71 = 60.69 * 4.04$

$420 \div 7 + 7 * 4 + ? * 13 = 61 * 4$

$60 + 28 + ?*13 = 244$

$?*13 = 244 - 60 - 28$

$?*13 = 156$

$? = 12$

28) Answer A

$(18.18 * 49.67) \div 9.87 - 2380.23 \div 139.91 = ? - 51.74$

$(18 * 50) \div 10 - 2380 \div 140 = ? - 52$

$900 /10 - 2380/140 = ? - 52$

$90 - 17 + 52 = ?$

$? = 125$

29) Answer C

$\frac{6.87}{49.84} of\ 3050.35 - \frac{4.73}{9} of \frac{6.84}{2.5}\ of\ 72.27 = ?$

$\frac{7}{50} of\ 3050 - \frac{5}{9} of \frac{7}{2.5}\ of\ 72 = ?$

$427 - 112 = ?$

$? = 315$

30) Answer E

$6\frac{1}{5} - 4\frac{5}{6} - ? = 2\frac{5}{12} - 5\frac{3}{4} - 3\frac{7}{8}$

$6 - 5 - ? = 2 - 6 - 4$

$? = 6 - 5 - 2 + 6 + 4$

$? = 9$

31) Answer-A

$\sqrt{(8835.83)} \times 2.86*50\% + \sqrt{(5040.89)} \times 6.01 \times 7.95 - \sqrt{(1850.09)} \times 4.05 \times 3.02 = ?$

$94*3*1/2 + 71*6*8 - 516 = ?$

$141 + 3408 - 516 = ?$

$3033 = ?$

32) Answer- A
$0.04 \times 0.5 \times 0.243 \times 11.11\% + 0.008 \times 0.5 + 27.85 - 22.05 + \sqrt{1521.21} = ?$
$0.00054 + 0.004 + 27.85 - 22.05 + 39 = ?$
$44.80454 = ?$
$45 = ?$

33) Answer- B
$(2145.237 \times 5.9) - 1456.895 + 1091.237 - 645.231 + (33 \times 1.23) = ?$
$(2145*6) - 1457 + 1091 - 645 + 33*1 = ?$
$12870 - 1457 + 1091 - 645 + 33 = ?$
$11892 = ?$

34) Answer- C
$498.85 \times 89.92 + 327.89 + 462.05 - 136.38 \times 98.98 = ?$
$499*90 + 328 + 462 - 136*99 = ?$
$32236 = ?$

35) Answer- C
$\sqrt{50625.24} \div 74.95 + \sqrt{570} \times 14.148 - 109.3 = ?$
$225/75 + 24*14 - 109 = ?$
$3 + 336 - 109 = ?$
$230 = ?$

36) Answer- A
$239.95 \times 129.99\% \div 76.17 + 178.17 - 94.94 = ?$
$240*130\%/76 + 178 - 95 = ?$
$312/76 + 178 - 95 = ?$
$4.1 + 83 = ?$
$87 = ?$

37) Answer –A
$3322.1 \times 11.11 + 2233.1 \times 11.01 + 4554.41 \times 10.91 + 5454.87 \times 12.11 - 6556.1 \times 11.10 = ?$
$3322*11 + 2233*11 + 4554*11 + 5455*12 - 6556*11 = ?$
$36542 + 24563 + 50094 + 65460 - 72116 = ?$
$104543 = ?$

38) Answer -B
?% Of (5627.89 ÷ 7.08) = 4596.01 – 4253.06
?% Of (5628/7)= 4596-4253
?% Of 804=343
?=343*100/804
?=42.66
?=43

39) Answer-B
8% Of 2249.9898 + 7.0 Of 4520.332 -1000.99= ?
8%*2250 + 7 *4520 -1001=?
180 +31640-1001=?
30819=?

40) Answer - D
$(26.912)^2 \times (16.16)^3 \div (8.12)^2 + (7.03)^3 + 41.41 = ? - 225.25*119.91\%$
$27^2 *16^3/64 + 343 +41 =? -225*120\%$
729*4096/64 +384 =? -270
46656+384+270=?
47310=?

41) Answer -B
(1141.14 + ?) ÷ 3.02 = 1824.25 ÷ 4.01 + 62.55*14.28%
(1141 + ?)/3=1824/4 +63/7
1141 + ? =3*(456+9)
1141 + ? = 1395
?=254

42) Answer-C
79.79% Of 275.12 ÷ 11.06 = ?*14.82 -204.56
80%*275/11 =?*15 -205
20+205 =?*15
15=?

43) Answer-A

55.997 ×49.993 – ?% Of 6000.009 = $(13.899)^2$ + 50.896 × 4.003
56 * 50 - ? * 60 = 196 + 204
60*? = 2800 – 196 – 204
? = 2400/60 = 40

44) Answer-A
(?- 364.08)/ 35.98 + 124.99% Of 48.03 – $(361.06)^{1/2}$ = $(729.11)^{1/3}$
(?- 364)/36 + 125%*48 -19 = 27
(?- 364)/36 + 60-19=27
?-364 =36*(27-60+19)
?= -504+364
?=-140

45) Answer-B
?*4+ 118.09 – 28.06 × 5.14 = 164.19
?*4=164-118+140
?=186/4=46.5

46) Answer-B
x = 8.33% Of 1727.98+35% Of 320-56% Of 250
x =144+112-140
x=116
Value Of (2.5x +35*2.4).
=2.5*116+35*2.4
=290+84
=374

47) Answer D
x = 8.19% *of* 249.94 + 33.33% *of* 134.94 + (21.11 ∗ 60.19) + 75.96
x = 0.08*250 + (1/3)*135 + (21*60) + 76
x = 20 + 45 +1260 +75
x = 1400

$\sqrt{(x+43)} = \sqrt{(1400+43)} = \sqrt{(1443)} \sim \sqrt{(1444)} = 38$

48) Answer B

$x = 364.84 + 71.97\%$ Of $849.87 - 899.71$

$x = 365 + 0.72 * 850 - 900$

$x = 365 + 612 - 900$

$x = 77$

$y = 16.21\%$ Of $80.12 + 20.11\%$ Of $63.91) * 4.87$

$y = (0.16 * 80 + 0.2 * 64) * 5$

$y = (12.8 + 12.8) * 5$

$y = 128$

$x < y$

49) Answer A

$x = (6599.84 \div 11.21 \div 7.84 + 1345.14) \div 283.91$

$x = (6600 \div 11 \div 8 + 1345) \div 284$

$x = (75 + 1345) \div 284$

$x = 5$

$y = (144.14 * 4.86 + 319.91 - 899.79) \div 34.81$

$y = (144 * 5 + 320 - 900)) \div 35$

$y = (720 + 320 - 900) \div 35$

$y = 140 \div 35$

$y = 4$

$x > y$

50) Ans – C

$x \div 4.04 = (22.81 * 3.63 + 207.72) \div 29.81$

$x \div 4 = (23 * 4 + 208) \div 30$

$x \div 4 = (300) \div 30$

$x \div 4 = 10$

$x = 40$

$y * 11.89 = 21.93^2 - (128.12 \div 15.84 - 4)$

$y * 12 = 22^2 - (128. \div 16 - 4)$

$y * 12 = 484 - 8 + 4$

$y * 12 = 480$

$y = 40$

$x = y$

CAREER DEFINER

REVISION SHEET

(PART - 3)

WITH DETAILED SOLUTIONS

KAUSHIK MOHANTY

More than 8 Years Experience

Directions: What will come in place of the question mark (?) in the following expression?
निर्देश: निम्नलिखित अभिव्यक्ति में प्रश्न चिह्न (?) के स्थान पर क्या आएगा?

1) $66\frac{2}{3}\%\ of\ 1350 + 14\frac{2}{7}\%of3500 = ?\%\ of\ 66\frac{2}{3}$
   a) 2100
   b) 2310
   c) 1250
   d) 2760
   e) 2500

2) $2^{3.6} \times 8^{2.8} \times 25^{1.3} = 40^{2.6} \times 2^{?}$
   a) 1.2
   b) 2.1
   c) 4.2
   d) 3.4
   e) 1.11

3) $\{(2^2 \times 2^3)^3 \div (512 \div 16)^5\} \times (32 \times 64)^4 = (2 \times 2)^{?+3}$
   a) 15
   b) 10
   c) 18
   d) 14
   e) 18

4) $25.2\%of\ 1250 - 12.2\%of\ 500 = ? - 87$
   a) 329
   b) 341
   c) 338
   d) 312
   e) 365

5) $\frac{7}{3}of\frac{675}{15}of\frac{3}{7}of\frac{208}{52} = ?$
   a) 171
   b) 144
   c) 167

d) 133
e) 180

6) $\sqrt{121}+\sqrt{289}+53-(2^2+?^2)^2=?$
a) $\pm\sqrt{5}$
b) $-\sqrt{5}$
c) $\sqrt{6}$
d) 5
e) 0

7) $\left[\left(5\sqrt{7}+\sqrt{7}\right)\times\left(4\sqrt{7}+8\sqrt{7}\right)\right]-19^2=?$
a) 125
b) 114
c) 122
d) 143
e) 132

8) $\frac{3\frac{2}{3}of\frac{45}{6}}{63\frac{4}{5}}=?\div 58$
a) 16
b) 25
c) 64
d) 8
e) 36

9) $11.11\%of\ 27.27\%of\ 8.33\%of\ 3564=?$
a) 9
b) 8
c) 5
d) 20
e) 6

10) $\sqrt[3]{(123+2744\div 7^2-29+23^2+50)}=?$
a) 21
b) 11
c) 1

d) 9
e) 14

11) $5\frac{2}{5} + 3\frac{3}{35} + \frac{14}{15} = ? + 4\frac{1}{15}$
a) 40
b) $5\frac{37}{105}$
c) $5\frac{24}{35}$
d) $2\frac{1}{105}$
e) 45

12) $\left(\sqrt{8} \times \sqrt{8}\right)^2 + (9)^{\frac{1}{2}} = (?)^3 + 3$
a) 7
b) 4
c) 9
d) 2
e) 3

13) $\frac{1}{4} \times 52 + 3 \times 26 + 56 \times 25 \div 5 = ?$
a) 371
b) 344
c) 346
d) 448
e) 334

14) $\sqrt{1600} - \sqrt[3]{8000} = 10^{?} + 10$
a) 7
b) 4
c) 2
d) 1
e) 6

15) $0.6 + 0.66 + 0.666 + 6.0606 = ?$
a) 12.1126
b) 7.9866
c) 4.7366
d) 2.8636

e) 6.98386

16) $\frac{4}{5}\%of\ 2500+24\frac{1}{4}\%of 400+35=(1525\div 25)\times 4+?$

a) 120
b) 308
c) 283
d) 192
e) 184

17) $2\times 3\frac{1}{2}+3\times(16\frac{2}{3}\div 8\frac{1}{3})+3\frac{1}{2}\times\frac{22}{7}\times 1\frac{4}{11}=?$

a) 25
b) 21
c) 28
d) 32
e) 35

18) $(5)^3\times(24)^2\div(45)^3=?^2$

a) $\frac{8}{9}$
b) $\frac{3}{7}$
c) 40
d) $\frac{4}{9}$
e) 60

19) $\sqrt{248+\sqrt{52+\sqrt{144}}}=?$

a) 24
b) 10
c) 23
d) 14
e) 16

20) $\frac{1}{\sqrt{9}-\sqrt{8}}-\frac{1}{\sqrt{8}-\sqrt{7}}+\frac{1}{\sqrt{7}-\sqrt{6}}-\frac{1}{\sqrt{6}-\sqrt{5}}+\frac{1}{\sqrt{5}-\sqrt{4}}=\ ?$

a) 2
b) 4
c) 1
d) 5

e) 6

21) $15\%of\ 3000 - 2 \times 7^2 = ?^2 + 96$
a) 16
b) 8
c) 4
d) 2
e) 6

22) $40\%of(13^2 - 8^2) + 25\%of(15^2 - 5^2) = ?$
a) 90
b) 95
c) 115
d) 92
e) 32

23) $\frac{(4+4\times18-6-8)}{(123\times6-146\times5)} = ?$
a) 11.2
b) 7.75
c) 12.23
d) 8.50
e) 14.30

24) $\frac{1073}{29} \times \frac{1776}{48} \times \frac{407}{11} = ?^3$
a) 41
b) 36
c) 26
d) 33
e) 37

25) $666.5 - 555.6 + 656.56 - 566.65 = ?$
a) 200.08
b) 200.81
c) 180.02
d) 175.33
e) 135.56

26) $\sqrt[3]{729} + 25\%of\ 880 + ?\%of 1579 - 36^2 - 8^3 = 0$
a) 100
b) 125
c) 180
d) 260
e) 70

27) $1\frac{1}{17} of\ 51 + ?\%of\ 5500 = 42^2 + 50$
a) 120
b) 45
c) 32
d) 68
e) 35

28) $120\%of\ 450 + ?^2 = 24^2$
a) 20
b) 5
c) 16
d) 6
e) 8

29) $16 \times 11 + 120\%of\ 500 - ?^2 = 40 \times 5$
a) 18
b) 64
c) 26
d) 28
e) 24

30) $\left(\sqrt[4]{268 - 2\left(\sqrt{144}\right)}\right) + (125)^{\frac{1}{3}} = ?$
a) 3
b) 1
c) 9
d) 21
e) 11

31) $\left[\frac{2}{7} of \frac{?}{9} of\ 252\right] + (9.09\%of\ 275) = \left(\frac{1}{7} + \frac{1}{6}\right) \times 210$

a) 10
b) 7
c) 2
d) 5
e) 4

32) $(6)^{7.2} \div (216)^{1.6} \times (1296)^{-0.6} \div (7776)^{1.2} = (6)^{?}$
a) 6
b) -6
c) 2
d) -4
e) 4

33) $30\%of\ 50 + 16.66\%of\ 48 - 20 + 13\%of\ 200 = ?$
a) 29
b) 25
c) 24
d) 30
e) 18

34) $\left(\frac{3}{4}\right)^3 \times \left(\frac{2}{3}\right)^4 \div ? = \frac{1}{624}$
a) 66
b) 62
c) 58
d) 52
e) 55

35) $? \times \frac{140}{50 \times 32 - 3144 \div 2} = 135$
a) 32
b) 27
c) 22
d) 36
e) 44

36) $\left[\left\{\frac{99}{87} \times \frac{87}{99} \div \frac{26}{676}\right\} + \left[\left\{\left(\frac{71}{97}\right) \times \left(\frac{58}{59}\right) \div \frac{4118}{5723}\right\}\right] + \frac{81}{9}\right] = \sqrt{?}$

a) 1444
b) 1521
c) 1296
d) 3600
e) 1225

37) $\sqrt{390+\sqrt{89+\sqrt{121}}}=?$
a) 20
b) 21
c) 27
d) 10
e) 14

38) $(1.6+3.2)^2=\left(\frac{?^7}{10}\right)+2.56\times\sqrt{16}$
a) 10
b) 4
c) 6
d) 2
e) 12

39) $\frac{880}{?+3}-60\%of\frac{3}{4}of\ 480=4$
a) 4
b) 1
c) 9
d) 7
e) 6

40) $\frac{1}{7}+\left[\frac{7}{9}-\left(\frac{3}{2}+\frac{2}{9}\right)-\frac{2}{9}\right]=?$
a) $\frac{15}{26}$
b) $\frac{21}{61}$
c) $-\frac{43}{42}$
d) 11
e) 41

41) $34 - 34^2 + 34 \times \left(34 + \frac{34}{0.34}\right) = ?$

a) 3434
b) 2736
c) 2300
d) 3157
e) 3414

42) $32.56 + 45.24 + 36.89 + 52.67 = ?^2 - 1.64$

a) 18
b) 16
c) 15
d) 13
e) 14

43) $(8)^{1.1} \times (16)^{2.2} \times (32)^{4.4} \times (64)^{8.8} = 2^?$

a) 100.4
b) 86.9
c) 102.4
d) 82.24
e) 90.8

44) $(10)^2 + (243)^{\frac{1}{5}} - 5 = (-7)^3 + ?^2$

a) 26
b) 16
c) 441
d) 28
e) 21

45) $\left[\frac{20}{7} \times 63\right] \div (18) + \frac{20}{3} = ?$

a) 69
b) $\frac{36}{4}$
c) 51
d) $\frac{50}{3}$
e) 61

46) $6\frac{5}{3}+7\frac{7}{6}+4\frac{5}{12}+\frac{3}{4}=?$
a) 24
b) 21
c) 33
d) 31
e) 39

47) $4(10+15\div5\times4-2\times2)=?$
a) 72
b) 88
c) 79
d) 84
e) 59

48) $[0.64+0.36+2\times0.8\times0.6]^{\frac{1}{2}}\times[1.21+0.25+2\times1.1\times0.5]^{\frac{1}{2}}=?$
a) 3.52
b) 4.80
c) 2.24
d) 5.64
e) 7.32

49) $(150.88\div16.4)\times(17.1\div3.8)=165.6\div?$
a) 4
b) 8
c) 6
d) 7
e) 5

50) $3\frac{3}{4}\%of7\frac{1}{5}of12\frac{4}{5}\ of\ 250=?$
a) 454
b) 1126
c) 756
d) 1023
e) 864

51) $[374-5\times\{80\%of\ 350-266\}+216]=?$

a) 510
b) 417
c) 422
d) 520
e) 334

52) $1.65 + 2.15 + 1.5 \times 21 - 20\%of\ 26.5 = ?$
a) 32
b) 30
c) 22
d) 36
e) 30

53) $\sqrt{303 - \sqrt{172 + \sqrt{544 + \sqrt{1042 - \sqrt{324}}}}} = ? \div 3$
a) 55
b) 36
c) 53
d) 74
e) 51

54) $\frac{185}{37} \times \frac{96}{4} + \left(\frac{1005}{15}\right) - \frac{7}{5} = ?$
a) 106.3
b) 171.2
c) 185.6
d) 80.65
e) 183.33

55) $(0.512)^{\frac{2}{5}} \times (0.8)^3 \div (0.4096) = (0.8)^{\frac{?}{5}}$
a) 1
b) 8
c) 2
d) 4
e) 7

56) $[\{(150\%of\ 44) - 11\}\%of\ 660]\%of\ 25 = ?\%of\ 165$
a) 36
b) 65
c) 54
d) 65
e) 55

57) $0.658 + 33.36 + 5^3 + 0.85 - 0.37 = ?$
a) 159.498
b) 62.256
c) 32.582
d) 57.2
e) 34.258

58) $(27)^{2.5} \times ((243)^3)^? = (3)^{22.5}$
a) 4
b) 5
c) 6
d) 1
e) 0

59) $(21 \times 11 + 8 \times 5 + 65) \div [(\sqrt{36})] = ?$
a) 53
b) 64
c) 56
d) 41
e) 21

60) $(13824)^{\frac{1}{3}} \div 8 + \left(\frac{\sqrt{4096}}{8}\right) + \left(\frac{\sqrt{1296}}{9}\right) - 16 = ?$
a) -1
b) 7
c) -3
d) 5
e) 14

61) $784 \div \sqrt{196} + 25.6 \div 2 \times 1.5 \div 3 = ?$
a) 62.4

b) 70.5
c) 75
d) 98.25
e) 68.2

62) $(36 + 36 + 36 + 36 + 36 + 36) \times 5 \times (36 + 36) \times 6 \div (36 \times 2) = 36 \times ?$
a) 180
b) 150
c) 120
d) 240
e) 200

63) 37.5% of $16^2 + 33.33\%$ of $243 + 14.28\%$ of $84 - 21^2 = ? - 23^2$
a) 277
b) 300
c) 256
d) 289
e) 250

64) $(841)^{1/2} * (4913)^{1/3} * (1296)^{1/4} * (3125)^{1/5} = ? * 493$
a) 30
b) 25
c) 36
d) 40
e) 48

65) $529 + 256 - 1364 + 253 - 568 + 0.36 - 0.96 - 1.23 = ?$
a) -895.83
b) -725.56
c) 586.23
d) -1.2356
e) 523.02

66) $23*11 + 5.6*2 + 256.12 - 14.6 = ? * 2$
a) 252.84
b) 252.86
c) 246.35

d) 144.56
e) 196.22

67) (√1444)/19+(√2401)/7-512+895=?
a) 392
b) 562
c) 442
d) 956
e) 356

68) 25.56+63.25+84.56-25.36-21.25-1.44 =? *4
a) 31.33
b) 56.23
c) 30
d) 28.56
e) 25

69) 1/(1*6) + 1/(6*11)+ 1/(11*16) +1/(16*?) = 4/21
a) 21
b) 28
c) 29
d) 35
e) 42

70) 5.52+5.265+555.2-652.3+2.6 =?
a) -83.715
b) 85.62
c) 84.256
d) -70.256
e) -64.53

71) If x = 52*2.5 + 8^2 + 8^3 + 56 - 2.5*3.2, then find the value of y, y^2 = x + 30
a) 28
b) 30
c) 52
d) 54
e) 26

72) If x= 25% of 356 + 66.67 % of 51+8.33% of 288 – 33.33% of 9, then find the value of y , $\sqrt{x} + x - y = y^2$
a) -13
b) -12
c) 15
d) 18
e) 20

73) If x= 0.36 + 0.6363 +63.63 +6.36, then find the value of y , $y = x + 0.0137$
a) 71
b) 65
c) 50
d) 83
e) 93

74) If $x = 5.26 + 64.58 +$ 25% of 396 + 33.33% of 36, then find the value y, $y = x + 0.16$
a) 181
b) 196
c) 205
d) 176
e) 185

75) If $x = 52+63+52$ and $y = 4^3 + 5^2 - 6^3$, then find z, where $z = x + y$
a) 38
b) 40
c) 45
d) 48
e) 54

76) If x = 20% of 325 + 40% of 755 + 75% of 528 and $y = 5^3 + 2^3 - 56$ then find z, where $z = x + y$
a) 840
b) 720
c) 560
d) 420
e) 360

77) If x = 56.23 +67.5% of 500 + 9^2 + 6^3 then find the value of y where y = x – 0.73
a) 650
b) 690
c) 750
d) 840
e) 720

78) If x^2 = 12.5% of 512 + 33.33% of 243 + 24 and then find the value of y, where 12^2 = x + 28.56% of 343 + y
a) 33
b) 22
c) 55
d) 88
e) 110

79) If 13*12 + 5*6 + 13^3 = x + 12^3 and then find the value of y, x + y = 28^2
a) 130
b) 165
c) 129
d) 110
e) 98

80) If x +13+60 = y +72+5*6 and x + 8*9 + 4 = 81 + 22 – y then find the value of x*y
a) -28
b) -33
c) -38
d) -40
e) -49

81) If 2*x + 57.12% of 161 – 12.5% of 512 + 3*x = 50% of 1024 + 6 then find the value of y, x + 2*y = 14^2
a) 49
b) 54
c) 68
d) 36
e) 50

82) If 5*x + 33.33% of 81 – 8.33% of 72 = 7.14% of 168 + 6^3 then find the value of y, y = x – 0.6
a) 40.8
b) 56.8
c) 84.2
d) 92.5
e) 30.2

83) If 522/29 + 66.67% of 144 + 4*x = 36^2 then find the value of y, 10*y + 5^2 = 5*x
a) 145.25
b) 135.25
c) 120.65
d) 194.25
e) 240.65

84) If 32^2 + 25% of 328 – 33.33% of 96 + 12.5% of 192 = 4*x then find the value of y, 5*y = x + 1.25
a) 55.15
b) 75.28
c) 42.15
d) 36.18
e) 96.25

85) If 20% of 525 – 14.28% of 2401 +7.69 % of 247 = x then find the value of y, x + 281 = y – 9^3 + 9^2 + 9
a) 701
b) 784
c) 923
d) 562
e) 625

86) Choose correct option: -
Quantity I- 28.56% of 33.33% of 12.5% of 2352
Quantity II- 12*4 + 65*3 - 52*12 - 12.5*2
a) QI>QII
b) QI<QII
c) QI=QII

d) QI≤QII
e) QI≥QII

87) Choose the correct option: -
Quantity I- $\sqrt{2116} + \sqrt{3136} + 12*2.5 - 11*3.5$
Quantity II- $(2401)^{1/4} + 12.5\%$ of $288 - 484/11$
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

88) Choose the correct option: -
Quantity I- 6.565 + 65.65 - 656.50 +666.56 + 666.5
Quantity II- 685.56 + 85.566 + 8.52 – 0.3256 -5.56
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

89) Choose the correct option: -
Quantity I- $42+ 56+7*8+8*9+9*10 - 24^2$
Quantity II- $52 - 6*9.5 +56 + 16^2 - 5^2 +6^2$
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

90) Choose the correct option: -
Quantity I- $\sqrt{7225} + \sqrt{6561} + 12.5*9 -14.5*8$
Quantity II- 55.55% of 216 – 12.75*8 + 14.5*2
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

91) Choose the correct option: -
Quantity I- 36%*400 + 27.5% of 500 + $(14641)^{1/4}$
Quantity II- $\sqrt{1369} + \sqrt{2401}$ + 85% of 600
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

92) Choose the correct option: -
Quantity I- $\sqrt{1089}$ + 6.25% of 352 – $5^2 + 12^3 + 6 + 207/23$
Quantity II- $\sqrt{1681}$ + 6.67% of 375 – $13^3 + 812/29$
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

93) Choose the correct option: -
Quantity I- $\sqrt{529} + 36*24$ + 25% of 240 – 33.33% of 528
Quantity II- $\{(512)^{1/3}\}^2 + \{(7776)^{1/5}\}^3$ - 42.85% of 238
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

94) Choose the correct option: -
Quantity I- 33.36 +9.36-2.35+25.63
Quantity II- 52.36+98.56-213.56-12.56
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

95) Choose the correct option: -
Quantity I- 1152/24 +576/144 – 52*2.5 $+15^3$
Quantity II- 52*6.5 + 56*1.5 – 0.2*0.5 $+18^2$
a) QI>QII

b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

96) Choose the correct option: -
Quantity I- $\{(6561)^{1/8}\}^3$ +36% of 250 – 125.25
Quantity II- 125% of 324 -23*29 +1.25*12
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

97) Choose the correct option: -
Quantity I- 33.33+12.5% of 1024+16.67% of 216
Quantity II- $13^2 + 13^3$ +25% of 52 – 14^2
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

98) Choose the correct option: -
Quantity I – 0.33+33.33+0.33-23.36
Quantity II- 54.26 + 23.63 -56.23+0.23
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

99) Choose the correct option: -
Quantity I- 12+123+1325+12563-12561
Quantity II- 12.5+136.9+1259.9 -125.3
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

100) Choose the correct option: -
Quantity I- $12^2 + 14^3 - 7^2 + 9^3$
Quantity II- $15^3 - 11^2 + 16^3 - 19^2$
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

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SOLUTION

1) Answer A

$66\frac{2}{3}\%\ of\ 1350 + 14\frac{2}{7}\%of3500 = x\ \%\ of\ 66\frac{2}{3}$

(2/3)*1350 + (1/7)*3500 = x*2/3

900+500=x*2/3

1400*3/2=x

x=2100

2) Answer C

$2^{3.6} \times 8^{2.8} \times 25^{1.3} = 40^{2.6} \times 2^{x}$

$2^{3.6} * 2^{8.4} * 5^{2.6} = 5^{2.6} * 2^{7.8} * 2^{x}$

$2^{(3.6+8.4-7.8)} = 2^{x}$

x= 3.6 + 8.4 - 7.8

x= 4.2

3) Answer D

$\{(2^2 \times 2^3)^3 \div (512 \div 16)^5\} \times (32 \times 64)^4 = (2 \times 2)^{x+3}$

$\{2^{(2+3)}\}^3 \div (2^9 \div 2^4)^5 \times \{2^5 \times 2^6\}^4 = (2)^{2x+6}$

$2^{15} \div 2^{25} \times 2^{44} = 2^{2x+6}$

$2^{(15-25+44)} = 2^{2x+6}$

15-25+44 = 2x+6

34 = 2x + 6

x= 14

4) Answer B

25.2% of 1250 – 12.2% of 500 = x – 87

315 – 61 = x – 87

254 = x – 87

X = 341

5) Answer E

7/3 of 675/15 of 3/7 of 208/52=?

45 * 4 = ?

180 = ?

6) Answer A

$\sqrt{121}+\sqrt{289}+53-(2^2+x^2)^2=?$

$11+17+53-(4+x^2)^2=?$
$81=(4+x^2)^2$
$4+x^2=9$
$X^2=9-4$
$X=\pm\sqrt{5}$

7) Answer D
$[(5\sqrt{7}+\sqrt{7})\times(4\sqrt{7}+8\sqrt{7})]-19^2=x$
$140+280+28+56-361=x$
$143=x$

8) Answer B
$\{3\ (2/3)\ of\ 45/6)\}/\{63\ (4/5)\}=x\div58$
$\{11/3\ of\ 45/6\}/(319/5)=x/58$
$(11*45*5)/(3*6*319)=x/58$
$25=x$

9) Answer A
11.11% of 27.27% of 8.33% of 3564=?
$(1/9)*(3/11)*(1/12)*3564=?$
$?=9$

10) Answer D
$\sqrt[3]{((123+2744\div7^2-29+23^2+50))}=?$
$(123+56-29+529+50)^{1/3}=?$
$(729)^{1/3}=?$
$9=?$

11) Answer B
$5\ (2/5)+3(3/35)+14/15=x+4(1/15)$
$27/5+108/35+14/15=x+61/15$
$(567+324+98-427)/105=x$
$x=562/105$
$x=5(37/105)$

12) Answer B
$(\sqrt{8}\times\sqrt{8})^2+(9)^{1/2}=x^3+3$
$64+3=x^3+3$
$x^3=64$
$x=4$

13) Answer A
(1/4)* 52 + 3*26 + 56*25/5 = ?
13 + 78 + 280 = ?
371 = ?

14) Answer D
$(1600)^{1/2} - (8000)^{1/3} = 10^x + 10$
$40 - 20 = 10^x + 10$
$20 - 10 = 10^x$
$10 = 10^x$
x=1

15) Answer B
0.6+0.66+0.666+6.0606 = ?
7.9866 = ?

16) Answer B
16(4/5)% of 2500 + 24(1/4)% of 400 +35 = (1525 /25)*4 +x
(84/5)% of 2500 + (97/4)% of 400 +35 =244 + x
420 + 97 +35=244 + x
x = 308

17) Answer C
$2\times 3\frac{1}{2} + 3 \times (16\frac{2}{3} \div 8\frac{1}{3}) + 3\frac{1}{2} \times \frac{22}{7} \times 1\frac{4}{11} = ?$
2*(7/2) + 3 * {(50/3) ÷ (25/3)} + (7/2)*(22/7)*(15/11) = ?
7 + 3*2 + 15 = ?
7 + 6 + 15 = ?
13 +15 = ?
28 = ?

18) Answer A
$5^3 * 24^2 / 45^3 = x^2$
$5^3 * 3^2*8^2/5^3*9^3 = x^2$
X = 8/9

19) Answer E
√(248+√(52+√144)) =?
√(248+√(52+12)) =?
√(248+√(64)) =?
√(248+8) =?

√(256) =?
16=?

20) Answer C
1/(√9-√8)-1/(√8-√7)+1/(√7-√6)-1/(√6-√5)+1/(√5-√4) = ?
Apply rationalization example
1/(√9-√8) =1*(√9+√8)/(√9-√8)(√9+√8) = (√9+√8)/1
then
(√9+√8)-(√8+√7)+(√7+√6)-(√6+√5)+(√5+√4) = ?
√9+√8-√8-√7+√7+√6-√6-√5+√5+√4
3-2=?
1 = ?

21) Answer A
15% of 3000 – 2* 7^2 = x^2 + 96
450 – 98 -96 =x^2
x^2 = 256
x=16

22) Answer D
40% of (13^2 - 8^2) + 25% of (15^2 - 5^2) =?
40% of 105+25% of 200 = ?
42 + 50 = ?
92 = ?

23) Answer B
((4+4×18-6-8))/((123×6-146×5))=?
(4+72-14)/(738 – 730)=?
62/8=?
7.75=?

24) Answer E
(1073/29)×(1776/48)×(407/11)=x^3
37*37*37 = x^3
X = 37

25) Answer B
666.5-555.6+656.56-566.65=?
200.81=?

26) Answer A
$\sqrt[3]{729}+25\%\text{of } 880+x\%\text{of}1579-36^2-8^3=0$
$9+220+x\%\text{ of } 1579-1296-512=0$
$X\%\text{ of } 1579 = 1296+512-9-220$
$X = 1579*100/1579$
$X=100$

27) Answer C
$1(1/17)\text{ of } 51 + x\%\text{ of } 5500 = 42^2 +50$
$(18/17)\text{ of } 51 + 55x =1764+50$
$54 + 55x =1814$
$X=1760/55$
$X=32$

28) Answer D
$120\%\text{ of } 450 +x^2 = 24^2$
$540 + x^2 = 576$
$X^2 = 36$
$X=6$

29) Answer E
$16*11+ 120\%\text{ of } 500 - x^2 = 40*5$
$176+ 600 - x^2 = 200$
$776-200=x^2$
$576 = x^2$
$X= 24$

30) Answer C
$(\sqrt[4]{(268-(\sqrt{144}))})+(125)^{1/3} =x$
$(\sqrt[4]{(268-12)}+ 5 = x$
$(\sqrt[4]{(256)}+ 5 = x$
$4+5=x$
$x=9$

31) Answer D
$\{(2/7)\text{ of } (x/9)\text{ of } 252\} + (9.09\%\text{ of } 275) = \{(1/7) + (1/6)\} *210$
$8x +25 =(13/42)*210$
$8x + 25 = 65$
$8x = 40$
$x = 5$

32) Answer B
$(6)^{7.2} \div (216)^{1.6} \times (1296)^{-0.6} \div (7776)^{1.2} = (6)^x$
$(6)^{7.2} \div (6)^{4.8} \times (6)^{-2.4} \div (6)^6 = (6)^x$
$6^{(7.2 - 4.8 - 2.4 - 6)} = (6)^x$
$x = -6$

33) Answer A
30%of 50+16.66%of 48-20+13%of 200=?
15 + 8 -20 +26 =?
?=29

34) Answer D
$(3/4)^3 \times (2/3)^4 \div ? = 1/624$
$X = 52$

35) Answer B
$X \times \{140/(50\times32-3144\div2)\} = 135$
$X*\{140/(1600 - 1572)\} = 135$
$140*x/28 = 135$
$5*x = 135$
$X = 27$

36) Answer C
$[\{(99/87)\times(87/99)\div(26/676)\}+[\{(71/97)\times(58/59)\div(4118/5723)\}]+(81/9)]=\sqrt{x}$
$(99*87*676)/(87*99*26) + (71*58*5723)/(97*59*4118) + (81/9) = \sqrt{x}$
$26 + 1 + 9 = \sqrt{x}$
$36 = \sqrt{x}$
$x=1296$

37) Answer A
$\sqrt{(390+\sqrt{(89+\sqrt{121})}) = ?}$
$\sqrt{(390+\sqrt{(89+11)}) = ?}$
$\sqrt{(390+\sqrt{100}) = ?}$
$\sqrt{(390+10) = ?}$
$\sqrt{(400) = ?}$
$20 = ?$

38) Answer D
$(1.6+3.2)^2 = (x^7/10) + 2.56\times\sqrt{16}$
$23.04 - 2.56*4 = (x^7/10)$

$23.04 - 10.24 = (x^7/10)$
$12.8*10 = x^7$
$128 = x^7$
$2^7 = x^7$
$x=2$

39) Answer B
$880/(x+3)-60\%\text{of } 3/4 \text{ of } 480=4$
$880/(x+3) - 3/5 \text{ of } 3/4 \text{ of } 480 = 4$
$880/(x+3) = 4 + 216$
$880/(x+3) = 220$
$4 = x+3$
$x = 1$

40) Answer C
$1/7+[7/9-(3/2+2/9)-2/9]=?$
$1/7 + (-7/6) = ?$
$-43/42 = ?$

41) Answer A
$34-34^2+34\times\{34+(34/0.34)\}=?$
$34 - 1156 + 34* 134 = ?$
$34 - 1156 + 4556 = ?$
$3434 = ?$

42) Answer D
$32.56 + 45.24 + 36.89 + 52.67 = x^2 - 1.64$
$167.36 = x^2 - 1.64$
$169 = x^2$
$x = 13$

43) Answer B
$(8)^{1.1} * (16)^{2.2} * (32)^{4.4} * (64)^{8.8} = 2^x$
$2^{3.3} * 2^{8.8} * 2^{22} * 2^{52.8} = 2^x$
$2^{(3.3+8.8+22+52.8)} = 2^x$
$x = 3.3+8.8+22+52.8$
$x = 86.9$

44) Answer E
$10^2 + (243)^{1/5} - 5 = (-7)^3 + x^2$

$100 + 3 - 5 = -343 + x^2$
$441 = x^2$
$21 = x$

45) Answer D
$[(20/7)\times63]\div(18)+(20/3)=?$
$(20*9)/18 + 20/3 = ?$
$10 + (20/3) = ?$
$50/3 = ?$

46) Answer B
$6\ (5/3) + 7(7/6) + 4(5/12) + 3/4 = ?$
$23/3 + 49/6 + 53/12 + 3/4 = ?$
$252/12 = ?$
$21 = ?$

47) Answer A
$4*(10+15\div5\times4-2\times2)=?$
$4*(10 + 12 - 4) = ?$
$4*(18) = ?$
$72 = ?$

48) Answer C
$(0.64+0.36+2*0.8*0.6)^{1/2} * (1.21+0.25+2*1.1*0.5)^{1/2} = ?$
$(1.96)^{1/2} * (2.56)^{1/2} = ?$
$1.4 * 1.6 = ?$
$2.24 = ?$

49) Answer A
$(150.88\div16.4)\times(17.1\div3.8)=165.6\div x$
$9.2 * 4.5 = 165.6/x$
$x = 165.6/9.2*4.5$
$x = 4$

50) Answer E
3(3/4)%of 7(1/5) of 12(4/5) of 250=?
(15/4)% of 36/5 of 64/5 of 250 = ?
864 = ?

51) Answer D

[374-5×{80%of 350-266}+216]=?
[374-5×{280-266}+216]=?
[374-5×{280-266}+216]=?
[374-5×{14}+216]=?
[374- 70 + 216]=?
520 = ?

52) Answer B
1.65+2.15+1.5×21-20%of 26.5=?
1.65+2.15+31.5-5.3=?
30=?

53) Answer E
$\sqrt{(303-\sqrt{(172+\sqrt{(544+\sqrt{(1042-\sqrt{324})})})}} = x\div3$
$\sqrt{(303-\sqrt{(172+\sqrt{(544+\sqrt{(1042-18)})})}} = x\div3$
$\sqrt{(303-\sqrt{(172+\sqrt{(544+\sqrt{(1024)})})}} = x\div3$
$\sqrt{(303-\sqrt{(172+\sqrt{(544+32)})})} = x\div3$
$\sqrt{(303-\sqrt{(172+\sqrt{576})})} = x\div3$
$\sqrt{(303-\sqrt{(172+24)})} = x\div3$
$\sqrt{(303-14)} = x\div3$
17*3 = x
x = 51

54) Answer C
185/37×96/4+(1005/15) – (7/5)=?
5*24 + 67 – (7/5) = ?
120 +67 –(7/5) = ?
187 – (7/5) = ?
185.6 = ?

55) Answer A
$(0.512)^{2/5} * (0.8)^3 / (0.4096) = (0.8)^{x/5}$
$(0.8)^{6/5} * (0.8)^3 / (0.8)^4 = (0.8)^{x/5}$
$(0.8)^{(6/5)+3-4} = (0.8)^{x/5}$
(6/5) + 3 – 4 = x/5
x = 1

56) Answer E
[{(150%of 44)-11}%of 660]%of 25=x% of 165
(55% of 660)% of 25 = x% of 165

X = 55

57) Answer A
$0.658+33.36+5^3+0.85-0.37=?$
$34.018 + 125 + 0.85 - 0.37 = ?$
$159.498 = ?$

58) Answer D
$(27)^{2.5} * ((243)^3)^x = (3)^{22.5}$
$(3)^{7.5} * (3)^{5*3*x} = (3)^{22.5}$
$(3)^{7.5+15x} = (3)^{22.5}$
$7.5 + 15x = 22.5$
$15x = 15$
$x = 1$

59) Answer C
$(21\times11+8\times5+65)\div(\sqrt{36}) = ?$
$(231+40+65)/6=?$
$56=?$

60) Answer A
$(13824)^{1/3} \div 8 + (\sqrt{4096}/8)+(\sqrt{1296}/9)-16=?$
$24/8 + 64/8 + 36/9 - 16 = ?$
$3 + 8 + 4 - 16 = ?$
$15 - 16 = ?$
$-1 = ?$

61) Answer A
$784 \div \sqrt{196} + 25.6 \div 2 \times 1.5 \div 3=?$
$784/14 + 6.4 = ?$
$56 + 6.4 = ?$
$62.4 = ?$

62) Answer A
$(36 + 36 + 36 + 36 + 36 + 36) \times 5 \times (36 + 36) \times 6 \div (36 \times 2) = 36 \times ?$
$36*6*5*36*2*6/(36*2)=36*?$
$36*30*6=36*?$
$180=?$

63) Answer A
37.5% of $16^2 + 33.33\%$ of $243 + 14.28\%$ of $84 - 21^2 = ? - 23^2$
$3/8$ of $256 + 243/3 + 84/7 - 441 + 529 = ?$
$96 + 81 + 12 - 441 + 529 = ?$
$277 = ?$

64) Answer A
$(841)^{1/2} * (4913)^{1/3} * (1296)^{1/4} * (3125)^{1/5} = ? * 493$
$29*17*6*5/493 = ?$
$30 = ?$

65) Answer A
$529 + 256 - 1364 + 253 - 568 + 0.36 - 0.96 - 1.23 = ?$
$-895.83 = ?$

66) Answer B
$23*11 + 5.6*2 + 256.12 - 14.6 = ?*2$
$253 + 11.2 + 256.12 - 14.6 = ? * 2$
$505.72 = ?*2$
$252.86 = ?$

67) Answer A
$(\sqrt{1444})/19 + (\sqrt{2401})/7 - 512 + 895 = ?$
$38/19 + 49/7 - 512 + 895 = ?$
$2 + 7 - 512 + 895 = ?$
$9 - 512 + 895 = ?$
$392 = ?$

68) Answer A
$25.56 + 63.25 + 84.56 - 25.36 - 21.25 - 1.44 = ?*4$
$125.32 = ? * 4$
$31.33 = ?$

69) Answer A
$1/(1*6) + 1/(6*11) + 1/(11*16) + 1/(16*x) = 4/21$
$1/5\ (1 - 1/6 + 1/6 - 1/11 + 1/11 - 1/16) + 1/(16*x) = 4/21$
$(1/5)*(15/16) + 1/16x = 4/21$
$3/16 + 1/16x = 4/21$
$(3x + 1)/16x = 4/21$
$63x + 21 = 64x$
$X = 21$

70) Answer A
5.52+5.265+555.2-652.3+2.6 = ?
-83.715 = ?

71) Answer A
$x = 52*2.5 + 8^2 + 8^3 + 56 - 2.5*3.2$
$x = 130 + 64 + 512 + 56 - 8$
$x = 754$
$y^2 = x + 30$
$y^2 = 754 + 30 = 784$
$y = 28$

72) Answer B
x= 25% of 356 + 66.67 % of 51+8.33% of 288 – 33.33% of 9
x= 89 + 34 + 24 -3
x= 147 -3
x= 144
$\sqrt{x} + x - y = y^2$
$12 + 144 = y^2 + y$
$156 = y^2 + y$
$y^2 - y - 156 = 0$
$y = 13, -12$

73) Answer A
x= 0.36 + 0.6363 +63.63 +6.36
x= 70.9863
y= x + 0.0137
y = 70.9863 + 0.0137
y = 71

74) Answer A
x = 5.26 + 64.58 + 25% of 396 + 33.33% of 36
x = 5.26 + 64.58 + 99 + 12
x = 180.84
y = 180.84 + 0.16
y = 181

75) Answer B
x = 52+63+52= 167
$y = 4^3 + 5^2 - 6^3 = 64+25-216 = -127$

$z = x + y = 167 - 127 = 40$

76) Answer E
$x = 20\%$ of $325 + 40\%$ of $755 + 75\%$ of 528
$x = 65 + 302 + 396$
$x = 763$
$y = 5^3 + 2^3 - 56$
$y = 125 + 8 - 56$
$y = 77$
$z = x + y$
$z = 763 + 77$
$z = 840$

77) Answer B
$x = 56.23 + 67.5\%$ of $500 + 9^2 + 6^3$
$x = 56.23 + 337.5 + 81 + 216$
$x = 690.73$
$y = x - 0.73$
$y = 690.73 - 0.73$
$y = 690$

78) Answer A
$x^2 = 12.5\%$ of $512 + 33.33\%$ of $243 + 24$
$x^2 = 64 + 81 + 24$
$x^2 = 169$
$x = 13$
$12^2 = x + 28.56\%$ of $343 + y$
$144 = 13 + 98 + y$
$y = 33$

79) Answer C
$13*12 + 5*6 + 13^3 = x + 12^3$
$156 + 30 + 2197 = x + 1728$
$2383 = x + 1728$
$x = 655$
$x + y = 28^2$
$655 + y = 784$
$y = 129$

80) Answer A

$x + 13 + 60 = y + 72 + 5*6$
$x + 73 = y + 72 + 30$
$x - y = 29$
$x + 8*9 + 4 = 81 + 22 - y$
$x + y = 81 + 22 - 72 - 4$
$x + y = 27$
$x = 28$ $y = -1$

81) Answer A
$2*x + 57.12\%$ of $161 - 12.5\%$ of $512 + 3*x = 50\%$ of $1024 + 6$
$5*x + 92 - 64 = 512 + 6$
$5*x = 512 - 28 + 6$
$5*x = 490$
$x = 98$
$x + 2*y = 14^2$
$98 + 2*y = 196$
$2*y = 98$
$y = 49$

82) Answer A
$5*x + 33.33\%$ of $81 - 8.33\%$ of $72 = 7.14\%$ of $168 + 6^3$
$5x + 27 - 6 = 12 + 216$
$5x = 207$
$x = 41.4$
$y = x - 0.6$
$y = 41.4 - 0.6$
$y = 40.8$

83) Answer A
$522/29 + 66.67\%$ of $144 + 4*x = 36^2$
$18 + 96 + 4x = 1296$
$4x = 1182$
$x = 295.5$
$10*y + 5^2 = 5*x$
$10*y = 5*295.5 - 25$
$10y = 1477.5 - 25$
$10y = 1452.5$
$y = 145.25$

84) Answer A

32^2 + 25% of 328 – 33.33% of 96 + 12.5% of 192 = 4*x
1024 + 82 – 32 + 24 = 4x
1098 =4x
x = 274.5
5*y = x + 1.25
5y = 274.5 + 1.25
5y = 275.75
y=55.15

85) Answer A
20% of 525 – 14.28% of 2401 +7.69 % of 247 = x
105 – 343 + 19 = x
-219 = x
x + 281 = y – 9^3 + 9^2 + 9
-219 + 281 = y – 729 + 81 +9
62 +729 – 81 – 9 = y
701 = y

86) Answer A
Quantity I –
28.56% of 33.33% of 12.5% of 2352
= (2/7) * (1/3) *(1/8) of 2352
=28
Quantity II –
12*4 + 65*3 - 52*12 - 12.5*2
= 48 + 195 – 624 – 25
= -406
QI>QII

87) Answer A
Quantity I –
√2116 + √3136 + 12*2.5 – 11*3.5
= 46 + 56 + 30 – 38.5
= 93.5
Quantity II-
$(2401)^{1/4}$ + 12.5% of 288 – 484/11
= 7 + 36 – 44
= 43 – 44
= -1
QI>QII

88) Answer B
Quantity I-
6.565 + 65.65 - 656.50 +666.56 + 666.5
= 748.775
Quantity II-
685.56 + 85.566 + 8.52 – 0.3256 -5.56
= 773.7604
QI<QII

89) Answer B
Quantity I –
$42+ 56+7*8+8*9+9*10 – 24^2$
$= 42 +56 +56 +72 +90 -576$
= -260
Quantity II –
$52 – 6*9.5 +56 + 16^2 - 5^2 +6^2$
$= 52 – 57 + 56 +256 – 25 + 36$
= 318
QI<QII

90) Answer A
Quantity I-
$\sqrt{7225} + \sqrt{6561} + 12.5*9 -14.5*8$
$= 85 + 81 + 112.5 – 116$
= 162.5
Quantity II –
55.55% of 216 – 12.75*8 + 14.5*2
= 120 – 102 + 28
= 46
QI>QII

91) Answer B
Quantity I-
$= 36\%*400 + 27.5\% \text{ of } 500 + (14641)^{1/4}$
$= 144 + 137.5 + 11$
= 292.5
Quantity II-
$= \sqrt{1369} + \sqrt{2401} + 85\% \text{ of } 600$
$= 37 + 49 + 510$
= 596

QI<QII

92) Answer A
Quantity I-
$= \sqrt{1089} + 6.25\% \text{ of } 352 - 5^2 + 12^3 + 6 + 207/23$
$= 33 + 22 - 25 + 1728 + 6 + 9$
$= 1773$
Quantity II-
$= \sqrt{1681} + 6.67\% \text{ of } 375 - 13^3 + 812/29$
$= 41 + 25 - 2197 + 28$
$= -2103$
QI>QII

93) Answer A
Quantity I-
$= \sqrt{529} + 36*24 + 25\% \text{ of } 240 - 33.33\% \text{ of } 528$
$= 23 + 864 + 60 - 176$
$= 771$
Quantity II-
$= \{ (512)^{1/3}\}^2 + \{ (7776)^{1/5}\}^3 - 42.85\% \text{ of } 238$
$= 64 + 216 - 102$
$= 178$
QI>QII

94) Answer A
Quantity I-
$= 33.36 + 9.36 - 2.35 + 25.63$
$= 66$
Quantity II-
$= 52.36 + 98.56 - 213.56 - 12.56$
$= -75.2$
QI>QII

95) Answer A
Quantity I-
$= 1152/24 + 576/144 - 52*2.5 + 15^3$
$= 48 + 4 - 130 + 3375$
$= 2397$
Quantity II-
$= 52*6.5 + 56*1.5 - 0.2*0.5 + 18^2$
$= 338 + 84 - 0.1 + 324$

= 745.9
QI>QII

96) Answer A
Quantity I-
$= \{ (6561)^{1/8}\}^3 + 36\% \text{ of } 250 - 125.25$
= 27 +90-125.25
= -8.25
Quantity II-
=125% of 324 -23*29 +1.25*12
=405 – 667 +15
= - 247
QI>QII

97) Answer B
Quantity I-
=33.33+12.5% of 1024+16.67% of 216
=33.33 + 128 +36
=197.33
Quantity II-
$= 13^2 + 13^3 + 25\% \text{ of } 52 - 14^2$
= 169 + 2197 + 13 – 196
= 2183
QI<QII

98) Answer A
Quantity I-
=0.33+33.33+0.33-23.36
=10.63
Quantity II-
=54.26 + 23.63 -56.23+0.23
=21.56
QI<QII

99) Answer A
Quantity I-
=12+123+1325+12563-12561
=1462
Quantity II-
=12.5+136.9+1259.9 -125.3

= 1284
QI>QII

100) Answer A
Quantity I-
$= 12^2 + 14^3 - 7^2 + 9^3$
$= 144 + 2744 - 49 + 729$
= 3568
Quantity II-
$= 15^3 - 11^2 + 16^3 - 19^2$
$= 3375 - 121 + 4096 - 361$
= 3302
QI>QII

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REVISION SHEET

(PART - 4)

WITH DETAILED SOLUTIONS

KAUSHIK MOHANTY

More than 8 Years Experience

Direction (1-40): What is the approximate value should come in place of question mark in the following questions?

निर्देश (1-40): निम्नलिखित प्रश्नों में प्रश्नवाचक चिन्ह के स्थान पर लगभग कितना मान आना चाहिए?

1) $\sqrt{56.25} * 5.9 - \sqrt{?} = 6.01^2 + \sqrt{48.79}$
   a) 8
   b) 6
   c) 4
   d) 9
   e) 10

2) $11.5 * 15.87 \div \sqrt{530} * 13.13 + 39.83 = ?^2$
   a) 6
   b) 12
   c) 10
   d) 18
   e) 16

3) $? * \left(4.12^{3.11} * \sqrt{12.25}\right) + 14.17^{1.87} = 195.85 * 9.17$
   a) 9
   b) 12
   c) 5
   d) 7
   e) 13

4) $\sqrt{?^{2.81} + \sqrt{255 + \sqrt{1160}}} = 8.79$
   a) 4
   b) 8
   c) 16
   d) 6
   e) 10

5) $64.87\%\ of\ \sqrt{4220} \div 1\% = ?^{1.97} \div 15.83$
   a) 260
   b) 320
   c) 300
   d) 280
   e) 270

6) $124.91^{33.33\%} + 81.18^{25\%} = ?^{299.81\%}$
a) 3
b) 2
c) 4
d) 1
e) 5

7) $\frac{5.73^2}{\sqrt{?}} + \frac{\sqrt{170}}{?} = \frac{11.21^2}{?}$
a) 7
b) 9
c) 11
d) 4
e) 81

8) $\sqrt[3]{(15.87\%\ 499.67 + 1099.93 + 8\% of\ 399.91 + 118.91)} = ?$
a) 1331
b) 11
c) 121
d) 1
e) None of these

9) $33.33\%\ of\ \left[55.97 \div \frac{7.17}{8.19} \times 2.83 \div 7.71\right] = ?$
a) 8
b) 16
c) 32
d) 24
e) 20

10) $\sqrt{49^?} = 7^5 \div 340^3 \times 2400^2$
a) 2
b) 3
c) 4
d) 1
e) 5

11) $2\frac{3}{17} * 1\frac{14}{37} + \sqrt[3]{4^{11.48}} = ?^2 - 64.98$

a) 16
b) 19
c) 22
d) 18
e) 24

12) $\frac{14.89*?}{129.84} * 64.87 + \frac{32.84*?}{110} * 85 = 329.87$
a) 10
b) 20
c) 30
d) 5
e) 15

13) $\left(\sqrt{65} + \sqrt[3]{9} + 4.87\right)^{2.96} = 25.12 \times ?$
a) 165
b) 135
c) 152
d) 185
e) 105

14) $\left(\sqrt{80} + 2.89\right)^{2.76} \times \left(\sqrt[3]{215} + 4.06\right)^{0.9} = 15499.90 + ?$
a) 1250
b) 2790
c) 1780
d) 1450
e) 1670

15) $\left(2423.9 \div 8.04 \div 2.96 - \sqrt{26} \times 1.87 + 2.93^2\right) = \sqrt{?}$
a) 9025
b) 11025
c) 10000
d) 9604
e) 10609

16) $4.97^{2.04} + 6.11^{1.89} = (1.97)^{3.02} + ?$
a) 53
b) 67
c) 88

d) 24
e) 45

17) $6539.79 \div 5.02 \div 3.99 + \frac{3}{5} \times 109.9 - ? = 2.18 \times ?$
a) 171
b) 144
c) 159
d) 213
e) 131

18) $22.09\%\ of\ ? + ?\%\ of\ 31.02 = 82.99 - 47.11\%\ of\ ?$
a) 62
b) 76
c) 93
d) 83
e) 99

19) $\sqrt{5.9 \times 7.07 + ?^2 + 34.1 \times \frac{8.89}{9}} = 19.98$
a) 25
b) 14
c) 22
d) 18
e) 32

20) $\frac{36.12}{\sqrt{80} \times ?} + \frac{49.91}{? \times \sqrt{26}} = \frac{?}{13.98}$
a) 16
b) 21
c) 25
d) 14
e) 31

21) $29.97^3 \div 107.96 \times 71.99 \div 90.01 = 168.02 + 2.12^?$
a) 6
b) 11
c) 7
d) 21
e) 5

22) $?^2 = (\sqrt{1089.11} \times \sqrt{1225.17}) \div 4.95 + 140.15\%$ of $2500.15 + 494.14$
a) 45
b) 65
c) 70
d) 87
e) 55

23) 124.95% of $4648.18 + 23.95 \times 60.17 = ? \times 29.19$
a) 250
b) 240
c) 210
d) 260
e) 230

24) $? = (19.19 \times 61.98 - 33.97^2) + 35.94\%$ of $2.17 \times (6.94^2 + 1.10)$
a) 68
b) 58
c) 76
d) 89
e) 99

25) $?^2 = \{(25.94^{1.98} + 21.98^{1.94}) \div (6.93^{1.97} + 2.95^{1.91})\} \times 4.98$
a) 17
b) 10
c) 12
d) 19
e) 21

26) $\{(23.98)^{1.98} \times 32.98\} \div 35.96 \div 15.97 = ?^2 + 1.9^{2.9}$
a) 7
b) 4
c) 6
d) 5
e) 8

27) $(139.7^2 \div 69.69 * 6.07) \div 56.08 = 15.15\% * ?$
a) 700

b) 200
c) 600
d) 500
e) 400

28) $\sqrt{63.99\%}\ of\ 599.87\ +\ \sqrt{81.09\%}\ *\ 399.98\ =?$
a) 760
b) 840
c) 920
d) 960
e) 640

29) $?^{\frac{2}{3}} = 54.96\%\ of\ 119.98 - 49.88$
a) 64
b) 216
c) 27
d) 8
e) 125

30) $16.66\%\ of\ 719.97\ +\ 20.13\%\ of\ ?^2 = \frac{?^2 + 33.33\%\ of\ 3119.78}{5.73}$
a) 60
b) 20
c) 40
d) 50
e) 100

31) $12.5\% of\ 238.91 + 37.5\%\ of\ 319.98 + 14.28\% of\ 350.09 =?$
a) 180
b) 200
c) 220'
d) 240
e) 160

32) $11.87 * 52.12 + \frac{\sqrt{170} * 6.81}{91.32} = 5.12 * ?^3$
a) 5
b) 8
c) 10

d) 12
e) 2

33) $\frac{1624.87}{?} + \left(\sqrt{170} + \sqrt{145}\right)^2 = 49.84\%\ of\ 185.98 + 856.91$
a) 8
b) 12
c) 15
d) 5
e) 20

34) $\left(\sqrt{\sqrt{1680} + \sqrt{2810} - \sqrt{360}}\right) \div 2.98 * \sqrt{74.96} = ?$
a) 125
b) 25
c) 625
d) 5
e) 1

35) $\frac{18.79}{17.17} * \frac{120.94}{208.83} * \frac{68.08}{74.89} = \frac{43.84}{15.12 * ?}$
a) 1
b) 5
c) 10
d) 50

36) $?\%\ of\ 449.73 + 39.79\%\ of\ 1399.83 = 18^2 + 24.87\%\ of\ 1267.81$
a) 16
b) 17
c) 18
d) 20
e) 22

37) $19.87\%\ of\ (45.13 * 63.96 - 34.78 * 57.93) - ? = 9.87 * \sqrt{145}$
a) 60
b) 80
c) 70
d) 40
e) 50

38) $12.12^2 + 12.5 * 15.87 - \sqrt{11240} + ?^2 = 34.875\ of\ 1039.73$
a) 11

b) 13
c) 15
d) 17
e) 19

39) $55.84\%\ of\ 1499.87\ +\ 63.76\%\ of\ 2499.83\ =?\ +\ 24.96 * 48.73\ +\ 6^{2.74}$
a) 999
b) 1001
c) 899
d) 1999
e) 1099

40) $\sqrt{50} * 11.97 \div 20.87 + 14.84 * 3.81 = ?^2$
a) 14
b) 16
c) 8
d) 10
e) 12

41) If $x = (31.95 \times 7.91 \times 4.95 + 19.92) \div 25.91 + 13.97$ then find the approximate value of (4x+14).
a) 270
b) 280
c) 290
d) 300
e) None of these

42) If x = 249.86% of $(11.86 \times 7.07 + 28.08 - 35.93 \times 2.02 \div 3.86)$ then find the approximate value of (x + 21)
a) 256
b) 241
c) 294
d) 281
e) None of these

43) If $x = 44.89^2$ – 83.03% of 899.76 – $17.17 \times 32.83 + 9.96 \times 10.98$ then find the approximate value of (x+23)/17.
a) 60
b) 70
c) 50
d) 80

e) None of these

44) If x = 6.142 × 385.23 + 503.89 - 719.43 - 1389.24 then find the approximate value of $\sqrt[3]{\left(\frac{x}{2}-10\right)}$

a) 8
b) 7
c) 12
d) 14
e) 18

Direction (45-50): In the question, two equations I and II are given. You have to solve both the equations to establish the correct relation between x and y and choose the correct option.
दिशा (48-50): प्रश्न में दो समीकरण I और II दिए गए हैं। आपको x और y के बीच सही संबंध स्थापित करने के लिए दोनों समीकरणों को हल करना होगा और सही विकल्प चुनना होगा।

45) (I) $11.98\% \ of \ 624.99 = 19.98\% \ of \ x + 24.98\% \ of \ 199.99$
(II) $\sqrt{528.99} + \sqrt{y} - \sqrt{440.98} = \sqrt[3]{1728.01}$

a) x>y
b) x<y
c) x=y, or the relationship cannot be established
d) x≥y
e) x≤y

46) (I) $\frac{(9.98\% \ of \ 599.98)}{14.99} = x - 11.98\% \ of \ 299.99$

(II) $\frac{77.98*1151.98}{23.99} = 71.98\% \ of \ 5249.99 - y$

a) x>y
b) x<y
c) x=y, or the relationship cannot be established
d) x≥y
e) x≤y

47) (I) $x = 24.98\% * 959.97 + 29.98\% \ of \ 199.98$
(II) $y + 865.99 - 626.01 = 24.98 * 21.99$

a) x>y
b) x<y
c) x=y, or the relationship cannot be established

d) x≥y
e) x≤y

48) (I) $49.99\%\ of\ 539.99 + 263.98\%\ of\ 49.99 = x\%\ of\ 1608.01$
(II) $y\%\ of\ 1799.99 = 75.01\%\ of\ 479.99 + 90.11$
a) x>y
b) x<y
c) x=y, or the relationship cannot be established
d) x≥y
e) x≤y

49) (I) $\frac{1579.84+519.91}{19.79} * 3.97 = x * 6.06$
(II) $11.79 * 59.87 + 22.79 * 49.87 - 969.71 = y * 14.84$
a) x>y
b) x<y
c) x=y, or the relationship cannot be established
d) x≥y
e) x≤y

50) (I) $\sqrt{2703.99} + \sqrt{x} - \sqrt{4760.98} = \sqrt[3]{6859.01}$
(II) $y + 604.04 * 8.79 - 606.91 * 7.98 = 10.87 * 8.01 * 18.98$
a) x>y
b) x<y
c) x=y, or the relationship cannot be established
d) x≥y
e) x≤y

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Any Error or Doubts Found

Please mail us :-

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SOLUTION

1) Answer C

$\sqrt{56.25} \times 5.9 - \sqrt{?} = 6.01^2 + \sqrt{48.79}$

$7.5 \times 6 - \sqrt{?} = 6^2 + 7$

$45 - 36 - 7 = \sqrt{?}$

$2 = \sqrt{?}$

$? = 4$

2) Answer B

$11.5 \times 15.87 \div \sqrt{530} \times 13.13 + 39.83 = ?^2$

$11.5 \times 16 \div \sqrt{529} \times 13 + 40 = ?^2$

$\frac{11.5 \times 16}{23} \times 13 + 40 = ?^2$

$8 \times 13 + 40 = ?^2$

$104 + 40 = ?^2$

$144 = ?^2$

$? = 12$

3) Answer D

$?\times \left(4.12^{3.11} \times \sqrt{12.25}\right) + 14.17^{1.87} = 195.85 \times 9.17$

$?\times \left(4^3 \times \sqrt{12.25}\right) + 14^2 = 196 \times 9$

$?\times (64 \times 3.5) + 196 = 1764$

$? \times 224 = 1764 - 196$

$? = \frac{1568}{224}$

$? = 7$

4) Answer A

$\sqrt{?^{2.81} + \sqrt{255 + \sqrt{1160}}} = 8.79$

$\sqrt{?^3 + \sqrt{255 + \sqrt{1156}}} = 9$

$\sqrt{?^3 + \sqrt{255 + 34}} = 9$

$\sqrt{?^3 + \sqrt{289}} = 9$

$\sqrt{?^3 + 17} = 9$

$?^3 + 17 = 81$

$?^3 = 81 - 17$

$?^3 = 64$

$? = 4$

5) Answer A

64.87% of $\sqrt{4220} \div 1\% = ?^{1.97} \div 15.83$

65% of $\sqrt{4225} \div 1\% = ?^2 \div 16$

$\frac{65}{100} \times 65 \times \frac{100}{1} = ?^2 \div 16$

$65 \times 65 \times 16 = ?^2$

$? = 65 * 4$

$? = 260$

6) Answer B

$124.91^{33.33\%} + 81.18^{25\%} = ?^{299.81\%}$

$125^{\frac{1}{3}} + 81^{\frac{1}{4}} = ?^3$

$5 + 3 = ?^3$

$8 = ?^3$

$? = 2$

7) Answer B

$\frac{5.73^2}{\sqrt{?}} + \frac{\sqrt{170}}{?} = \frac{11.21^2}{?}$

$\frac{6^2}{\sqrt{?}} + \frac{\sqrt{169}}{?} = \frac{11^2}{?}$

Let $? = x^2$

$\frac{6^2}{x} + \frac{13}{x^2} = \frac{121}{x^2}$

$\frac{36}{x} = \frac{121 - 13}{x^2}$

$x = \frac{180}{36}$

$x = 3$

$? = 3 * 3 = 9$

8) Answer B

$\sqrt[3]{(15.87\%\ 499.67 + 1099.93 + 8\%\text{of}\ 399.91 + 118.91)} = ?$

$\sqrt[3]{(16\%\ 500 + 1100 + 8\%\text{of}\ 400 + 119)} = ?$

$\sqrt[3]{(80 + 1100 + 32 + 119)} = ?$

$\sqrt[3]{(1331)} = ?$

$? = 11$

9) Answer A

$33.33\%\ \text{of}\left[55.97 \div \frac{7.17}{8.19} \times 2.83 \div 7.71\right] = ?$

$33.33\%\ \text{of}\left[56 * \frac{8}{7} * 3 * \frac{1}{8}\right] = ?$

$33.33\%\ \text{of}\ [8 * 3] = ?$

$\frac{1}{3} * 8 * 3 = ?$

$? = 8$

10) Answer D

$49^{?} = 7^5 \div 340^3 \times 2400^2$

$(7^2)^{?} = 7^5 \div 343^3 \times 2401^2$

$7^{2*?} = 7^5 \div 7^{3*3} \times 7^{4*2}$

$7^{2*?} = 7^5 * 7^{-9} \times 7^6$

$7^{2*?} = 7^{5-9+6}$

$7^{2*?} = 7^2$

$? = 1$

11) Answer D

$2\frac{3}{17} * 1\frac{14}{37} + \sqrt[3]{4^{11.48}} = ?^2 - 64.98$

$\frac{37}{17} * \frac{51}{37} + \sqrt[3]{4^{12}} = ?^2 - 65$

$3 + 4^4 = ?^2 - 65$

$3 + 256 + 65 = ?^2$

$?^2 = 324$

$? = 18$

12) Answer A

$\frac{14.89 * ?}{129.84} * 64.87 + \frac{32.84 * ?}{110} * 85 = 329.87$

$?\left(\frac{15}{130} * 65 + \frac{33}{110} * 85\right) = 330$

$?\,(7.5\ +25.5\,)=330$

$?=\frac{330}{33}$

$?\ =10$

13) Answer D

$\left(\sqrt{65}\ +\sqrt[3]{9}+4.87\right)^{2.96}\ =25.12\times?$

$\left(\sqrt{64}+\sqrt[3]{8}+5\right)^{3}=25*?$

$(8+2+5)^3=25*?$

$15^3=25*?$

$\frac{3375}{25}=?$

$?=135$

14) Answer C

$\left(\sqrt{80}+2.89\right)^{2.76}\times\left(\sqrt[3]{215}+4.06\right)^{0.9}=15499.90+?$

$\left(\sqrt{81}+3\right)^{3}*\left(\sqrt[3]{216}+4\right)^{1}=15500+?$

$(9+3)^3*(6+4)=15500+?$

$?=1728*10-15500$

$?=17280-15500$

$?=1780$

15) Answer C

$\left(2423.9\div8.04\div2.96-\sqrt{26}\times1.87+2.93^2\right)=\sqrt{?}$

$\left(2424\div8\div3-\sqrt{25}\times2+3^2\right)=\sqrt{?}$

$(303\div3-5\times2+9)=\sqrt{?}$

$(101-10+9)=\sqrt{?}$

$100=\sqrt{?}$

$10000=?$

16) Answer A

$4.97^{2.04}+6.11^{1.89}=(1.97)^{3.02}+?$

$5^2+6^2=2^3+?$

$?=25+36-8$

$?=53$

17) Answer E

$6539.79\div5.02\div3.99+\frac{3}{5}\times109.9-?=2.18\times?$

$6540 \div 5 \div 4 + \frac{3}{5} \times 110 - ? = 2 \times ?$
$327 + 66 = 3 * ?$
$? = 393/3$
$? = 131$

18) Answer D
22.09% of $? + ?\%$ of $31.02 = 82.99 - 47.11\%$ of $?$
$? = x$(let)
$\frac{22}{100} * x + \frac{x}{100} * 31 + \frac{47}{100} * x = 83$
$x\left(\frac{22}{100} + \frac{31}{100} + \frac{47}{100}\right) = 83$
$x\left(\frac{100}{100}\right) = 83$
$x = 83$

19) Answer D
$\sqrt{5.9 \times 7.07 + ?^2 + 34.1 \times \frac{8.89}{9}} = 19.98$
$\sqrt{6 \times 7 + ?^2 + 34 \times \frac{9}{9}} = 20$
$\sqrt{42 + ?^2 + 34} = 20$
$\sqrt{76 + ?^2} = 20$
$76 + ?^2 = 400$
$?^2 = 400 - 76$
$?^2 = 324$
$? = 18$

20) Answer D
$\frac{36.12}{\sqrt{80} \times ?} + \frac{49.91}{? \times \sqrt{26}} = \frac{?}{13.98}$
$? = x$(let)
$\frac{36}{\sqrt{81} \times x} + \frac{50}{x \times \sqrt{25}} = \frac{x}{14}$
$\frac{1}{x}\left(\frac{36}{9} + \frac{50}{5}\right) = \frac{x}{14}$
$(4 + 10) * 14 = x^2$
$14 * 14 = x^2$

$x = 14$

21) Answer E

$29.97^3 \div 107.96 \times 71.99 \div 90.01 = 168.02 + 2.12^?$

$30^3 \div 108 \times 72 \div 90 = 168 + 2^?$

$\frac{27000}{108} * \frac{72}{90} = 168 + 2^?$

$200 - 168 = 2^?$

$32 = 2^?$

$2^5 = 2^?$

$? = 5$

22) Answer B

$?^2 = (\sqrt{1089.11} \times \sqrt{1225.17}) \div 4.95 + 140.15\%$ of $2500.15 + 494.14$

$?^2 = (\sqrt{1089} \times \sqrt{1225}) \div 5 + 140\%$ of $2500 + 494$

$?^2 = (33 \times 35) \div 5 + 3500 + 494$

$?^2 = 1155 \div 5 + 3500 + 494$

$?^2 = 231 + + 3500 + 494$

$?^2 = 4225$

$? = 65$

23) Answer A

124.95% of $4648.18 + 23.95 \times 60.17 = ? \times 29.19$

$5810 + 1440 = ? \times 29$

$7250 = ? \times 29$

$250 = ?$

24) Answer B

$? = (19.19 \times 61.98 - 33.97^2) + 35.94\%$ of $2.17 \times (6.94^2 + 1.10)$

$? = (1178 - 1156) + 0.72 \times (49 + 1)$

$? = 22 + 0.72 \times 50$

$? = 22 + 36$

$? = 58$

25) Answer B

$?^2 = \{(25.94^{1.98} + 21.98^{1.94}) \div (6.93^{1.97} + 2.95^{1.91})\} \times 4.98$

$?^2 = \{(676 + 484) + (49 + 9)\} \times 5$

$?^2 = (1160 \div 58) \times 5$

$?^2 = 20 \times 5$

$?^2 = 100$

$? = 10$

26) Answer D

$\{(23.98)^{1.98} \times 32.98\} \div 35.96 \div 15.97 = ?^2 + 1.9^{2.9}$

$\{(24)^2 \times 33\} \div 36 \div 16 = ?^2 + 2^3$

$(576 \times 33) \div 36 \div 16 = ?^2 + 8$

$33 - 8 = ?^2$

$25 = ?^2$

$5 = ?$

27) Answer B

$(139.7^2 \div 69.69 * 6.07) \div 56.08 = 15.15\% * ?$

$\left(\frac{140 * 140}{70} * 6\right) \div 56 = 15.15\% * ?$

$1680 \div 56 = 15\% \times ?$

$30 \times 100/15 = ?$

$200 = ?$

28) Answer B

$\sqrt{63.99\%}$ of $599.87 + \sqrt{81.09\%} * 399.98 = ?$

$\sqrt{64\%}$ of $600 + \sqrt{81\%} * 400 = ?$

$0.8 * 600 + 0.9 * 400 = ?$

$480 + 360 = ?$

$840 = ?$

29) Answer A

$?^{\frac{2}{3}} = 54.96\%$ of $119.98 - 49.88$

$?^{\frac{2}{3}} = 55\%$ of $120 - 50$

$?^{\frac{2}{3}} = 66 - 50$

$?^{\frac{2}{3}} = 16$

$x = 64$

30) Answer C

16.66% of $719.97 + 20.13\%$ of $?^2 = \frac{?^2 + 33.33\% \text{ of } 3119.78}{5.73}$

$\frac{1}{6} * 720 + \frac{1}{5} * ?^2 = \frac{?^2 + \frac{1}{3} * 3120}{6}$

$720 + \frac{6}{5} * ?^2 = ?^2 + 1040$

$\frac{1}{5} * ?^2 = 1040 - 720$

$?^2 = 1600$

$? = 40$

31) Answer B

$12.5\%\text{of } 238.91 + 37.5\% \text{ of } 319.98 + 14.28\%\text{of } 350.09 = ?$

$12.5\%\text{of } 240 + 37.5\% \text{ of} 320 + 14.28\%\text{of } 350 = ?$

$30 + 120 + 50 = ?$

$? = 200$

32) Answer A

$11.87 * 52.12 + \frac{\sqrt{170} * 6.81}{91.32} = 5.12 * ?^3$

$12 * 52 + \frac{13 * 7}{91} = 5 * ?^3$

$\frac{624 + 1}{5} = ?^3$

$? = 5$

33) Answer D

$\frac{1624.87}{?} + \left(\sqrt{170} + \sqrt{145}\right)^2 = 49.84\% \text{ of } 185.98 + 856.91$

$\frac{1625}{?} + (13 + 12)^2 = 50\% \text{ of } 186 + 857$

$\frac{1625}{?} = 93 + 857 - 625$

$1625/? = 325$

$5 = ?$

34) Answer B

$\left(\sqrt{\sqrt{1680} + \sqrt{2810} - \sqrt{360}}\right) \div 2.98 * \sqrt{74.96} = ?$

$\sqrt{(41 + 53 - 19)} \div 3 * \sqrt{75} = ?$

$\frac{\sqrt{75}}{3} * \sqrt{75} = ?$

$? = 25$

35) Answer B

$\frac{18.79}{17.17} * \frac{120.94}{208.83} * \frac{68.08}{74.89} = \frac{43.84}{15.12 * ?}$

$\frac{19}{17} * \frac{121}{209} * \frac{68}{75} = \frac{43.84}{15.12 * ?}$

$\frac{44}{75} = \frac{44}{x}$

x=5

36) Answer C

$?\%$ of $449.73 + 39.79\%$ of $1399.83 = 18^2 + 24.87\%$ of 1267.81

$(?\%$ of $450 + 40\%$ of $1400 = 324 + 25\%$ of $1268)$

$?\%$ of $450 = 324 + 317 - 560$

$?\%$ of $450 = 81$

$? = 18$

37) Answer E

19.87% of $(45.13 * 63.96 - 34.78 * 57.93) - ? = 9.87 * \sqrt{145}$

20% of (45×64 -35×58) - ? = 10×12

20% of (2880 - 2030) - ?=120

170 - ? = 120

50 = ?

38) Answer A

$12.12^2 + 12.5 * 15.87 - \sqrt{11240} + ?^2 = 34.87\%$ of 1039.73

$12^2 + 12.5 * 16 - \sqrt{11240} + ?^2 = 35\%$ of 1040

$?^2 = 364 + 106 - 144 - 200$

$126 = ?^2$

$? = 11$

39) Answer A

55.84% *of* $1499.87 + 63.76\%$ *of* $2499.83 = ? + 24.96 * 48.73 + 6^{2.74}$

56% of $1500 + 64\%$ of $2500 = ? + 1225 + 216$

$840 + 1600 - 1225 - 216 = ?$

$999 = ?$

40) Answer C

$\sqrt{50} * 11.97 \div 20.87 + 14.84 * 3.81 = ?^2$

$7 * 12 \div 21 + 60 = ?^2$

$4 + 60 = ?^2$

$? = \sqrt{64}$

? = 8

41) Answer A
x = (31.95 × 7.91 × 4.95 + 19.92) ÷ 25.91 + 13.97
x = (32 * 8 * 5 + 20) ÷ 26 + 14
$x = \frac{1300}{26} + 14$
x = 50 + 14
x = 64
4x +14 = 4×64+14 = 256 +14 = 270

42) Answer A
249.86% of (11.86 × 7.07 + 28.08 - 35.93 × 2.02 ÷ 3.86) = x
250% of (12 × 7 + 28 - 36 × 2 ÷ 4) = x
2.5 × (84 + 28 - 18) = x
2.5 × 94 = x
x = 235
x+21 = 235+21=256

43) Answer C
44.892 - 83.03% of 899.76 - 17.17 × 32.83 + 9.96 × 10.98 = x
452 - 83% of 900 - 17 × 33 + 10 × 11 = x
2025 - 83 × 9 - 561 + 110 = x
2025 - 747 - 451 = x
x = 827

(x+23)/17 = (827+23)/17= 850/17 = 50

44) Answer B
6.142 × 385.23 + 503.89 – 719.43 - 1389.24 = x
6 × 385 + 504 – 719 – 1389 = x
2310 + 504 – 719 – 1389 = x
x = 706
$\sqrt[3]{\left(\frac{x}{2} - 10\right)} = \sqrt[3]{\left(\frac{706}{2} - 10\right)} = \sqrt[3]{(353 - 10)} = \sqrt[3]{(343)} = 7$

45) Answer A
(I) 11.98% of 624.99 = 19.98% of x + 24.98% of 199.99
12% of 625=20% of x +25% of 200
0.20×x+0.25×200=0.12×625
0.20×x+50=75

$0.20 \times x = 25$
$x = 125$

(II) $\sqrt{528.99} + \sqrt{y} - \sqrt{440.98} = \sqrt[3]{1728.01}$
$\sqrt{529} + \sqrt{y} - \sqrt{441} = \sqrt[3]{1728}$
$23 + \sqrt{y} - 21 = 12$
$\sqrt{y} = 12 + 21 - 23$
$\sqrt{y} = 10$
$y = 100$

$x > y$

46) Answer A
(I) $\frac{(9.98\% \text{ of } 599.98)}{14.99} = x - 11.98\% \text{ of } 299.99$
$(10\% \text{ of } 600) \div 15 = x - 12\% \text{ of } 300$
$(0.10 \times 600) \div 15 = x - 0.12 \times 300$
$60 \div 15 = x - 36$
$x = 4 + 36$
$x = 40$

(II) $\frac{77.98 * 1151.98}{23.99} = 71.98\% \text{ of } 5249.99 - y$
$(78 \times 1152) \div 24 = 72\% \text{ of } 5250 - y$
$89856 \div 24 = 0.72 \times 5250 - y$
$3744 = 3780 - y$
$y = 3780 - 3744$
$y = 36$
$x > y$

47) Answer B
(I) $x = 24.98\% * 959.97 + 29.98\% \text{ of } 199.98$
$x = 25\% \times 960 + 30\% \times 200$
$x = 240 + 60$
$x = 300$

(II) $y + 865.99 - 626.01 = 24.98 * 21.99$
$y + 866 - 626 = 25 \times 22$

y+240=550
y=550-240
y=310

x<y

48) Answer C
(I) 49.99% of 539.99 + 263.98% of 49.99 = x% of 1608.01
x% of 1608=50% × 540 +264% × 50
x% × 1608=270+132
x × 1608=402 ×100
x=40200/1608
x=25

(II) y% of 1799.99 = 75.01% of 479.99 + 90.11
y% of 1800=75% ×480+90
y×18=360+90
y×18=450
y=25

x=y

49) Answer A
(I) $\frac{1579.84+519.91}{19.79} * 3.97 = x * 6.06$
(1580+520)/20×4=x×6
2100/20×4=x×6
105×4/6=x
x=70

(II) $11.79 * 59.87 + 22.79 * 49.87 - 969.71 = y * 14.84$
12×60 + 23×50 – 970 = y×15
720+1150-970=y × 15
900/15=y
y = 60

x>y

50) Answer A

(I) $\sqrt{2703.99} + \sqrt{x} - \sqrt{4760.98} = \sqrt[3]{6859.01}$

$\sqrt{2704} + \sqrt{x} - \sqrt{4761} = \sqrt[3]{6859}$

$52 + \sqrt{x} - 69 = 19$

$\sqrt{x} = 19 + 69 - 52$

$x = 1296$

(II) $y + 604.04 * 8.79 - 606.91 * 7.98 = 10.87 * 8.01 * 18.98$

$y + 604 \times 9 - 607 \times 8 = 11 \times 8 \times 19$

$y + 5436 - 4856 = 88 \times 19$

$y + 580 = 1672$

$y = 1672 - 580$

$y = 1092$

$x > y$

CAREER DEFINER

REVISION SHEET

(PART - 5)

WITH DETAILED SOLUTIONS

KAUSHIK MOHANTY

More than 8 Years Experience

Directions: What approximate value will come in place of the question mark (?) in the following expression?

निर्देश: निम्नलिखित अभिव्यक्ति में प्रश्न चिह्न (?) के स्थान पर कौन सा अनुमानित मान आएगा?

1) $\frac{55.95}{?} + (8.01)^3 = 12.99\%\ of\ \ 3999$

a) 5
b) 13
c) 12
d) 7
e) 10

2) $49.98\%\ of\ 498.98 = ? - (24.99\ \%\ of\ 799.98) \div 9.98$

a) 125
b) 270
c) 180
d) 240
e) 170

3) $(27.02)^{2.03} - 2401^{\frac{1.09}{3.99}} + 35.98^{\frac{0.99}{2.02}} = ?$

a) 615
b) 710
c) 728
d) 616
e) 538

4) $(\sqrt{81.34} + 615.98)^{\frac{1}{2}} + \frac{15.056 \times 2.99}{5.01} + 14.99 \times ? = 64.01$

a) 3
b) 6
c) 8
d) 2
e) 5

5) $(24.99\%\ of\ 520.03) - (34.96\%\ of\ 179.93) = ?$

a) 71
b) 144
c) 67

d) 13
e) 81

6) $\{(11.92 \times 31.94 \times 47.99) \div (3.94^2 \times \sqrt{36.04}\,)\} + \sqrt{?} = 200.14$
a) 62
b) 76
c) 93
d) 53
e) 64

7) $(\frac{3}{4})^{2.01} \times 127099 + 441.99 = ?$
a) 625
b) 514
c) 422
d) 518
e) 632

8) $37.05\ \%\ of\ 872 + 41.66\%\ of\ 444 = ?^3$
a) 16
b) 64
c) 512
d) 8
e) 6

9) $50.01\%\ of\ 479.98 + ?\ \%\ of\ 398.99 = 20.01\%\ of\ 2799.09$
a) 120
b) 80
c) 54
d) 200
e) 60

10) $1320.02 \div 40.06 \times 62.96 = ? + 18.03$
a) 2061
b) 1751
c) 2331
d) 1761
e) 1834

11) $\left|\left(\frac{9.06}{1.98}\right)+\left(\frac{1.05}{4.96}\right)+\left(\frac{2.98}{4.12}\right)\right| \times 20.11 - 6.82^2 = ?$

a) 40
b) 60
c) 50
d) 80
e) 45

12) $757.17 \div 14.09 \times 5.098 - \sqrt{7920} = ?$

a) 121
b) 89
c) 181
d) 200
e) 126

13) $32.12\%\ of\ 599.89 + ? = (1198.78 \div 19.99) \times 4.02$

a) 21
b) 44
c) 56
d) 48
e) 34

14) $\left(\frac{2}{5}\right)^{2.01} \times \frac{5.02}{15.99} = ? - \frac{1}{4.98}$

a) 0.67
b) 0.25
c) 1.25
d) 6.25
e) 0.64

15) $63.989 \times 2^{?} - ((23.989 \times 11.012 + (8.501)^2) = 7999.98$

a) 12
b) 7
c) 24
d) 2
e) 16

16) $22.01^2 - 33.945 = (?)^2 + 3.11 \times \sqrt{1765.01}$
a) 20
b) 17
c) 23
d) 18
e) 14

17) $?^3 \times 12.03 + 24.01\%\ of\ 450 = (39.98)^2 + \sqrt[3]{511.96}$
a) 125
b) 5
c) 25
d) 625
e) 50

18) $4^{(?\%\ of\ 199.88 - \sqrt{1295.89})} = 299.88 - 44.08$
a) 20
b) 80
c) 40
d) 120
e) 60

19) $32.5\% of\ 79.99 + 70\%\ of\ 310.01 + 126.99 = ?$
a) 240
b) 370
c) 230
d) 145
e) 410

20) $\left(\frac{4.01}{8.99}\right) of\ \left(\frac{1.03}{63.98}\right) of\ 255.99 = 14.01\%1249.99 - ?$
a) 26
b) 34
c) 31
d) 28
e) 46

21) $\sqrt{121.02} + \sqrt{289.23} + 52.94 = (1.93^{2.02} + 5)^?$

a) 3
b) 8
c) 4
d) 2
e) 6

22) $\sqrt{19600.066} + 3379.88 \div 13 - 125.06\% of\ 300.11 = ?$
a) 20
b) 15
c) 25
d) 16
e) 32

23) $4.019\frac{3}{12} + 0.99\frac{3}{4} - ? = \sqrt[3]{65}$
a) 1
b) 2
c) 12
d) 8
e) 4

24) $(12.96 + 6.98) \div 3.968 + ? = (10.98)^3$
a) 1261
b) 1836
c) 1326
d) 1133
e) 1669

25) $\frac{21.66}{419.98} \times \frac{83.97}{65.96} \times ? = 11.98$
a) 200
b) 145
c) 180
d) 175
e) 135

26) $42.99^{2.01} + 53.01^{1.99} - 14^{3.01} = 200\% of\ ?$
a) 1667
b) 641

c) 518
d) 896
e) 957

27) $\sqrt{(16.9 \times 44.9 + 4798.5 \div 3.99 + 59.7)} = ?$
a) 120
b) 45
c) 54
d) 68
e) 35

28) $(16.88 + 8.98 \times 7.11) \div 124.65^{\frac{1}{3}} = ?$
a) 20
b) 50
c) 16
d) 24
e) 18

29) $59.84\% of\ 130.01 + 20.02\% of\ 119.99 + 124.99\% of\ 6.87 = ?$
a) 182
b) 64
c) 126
d) 188
e) 216

30) $(0.008)^{117.01} \div (0.04)^{69.01} = (0.008)^{?}$
a) 121
b) 81
c) 54
d) 71
e) 61

31) $119.87 + 229.88 - 429.92 = 120.01 - 209.89 + ?$
a) 10
b) 17
c) 20
d) 11

e) 24

32) $\sqrt{7567.4} \times 4.51 + 161.9 \times 7.98 = 2399.7 - ?$
a) 1660
b) 2672
c) 2512
d) 756
e) 860

33) $\sqrt[3]{726} + 24.957\%\ of\ 881.945 + ?\%\ of\ 2219.98 = (36.045)^2 - (8.094)^3$
a) 20
b) 25
c) 54
d) 10
e) 18

34) $42.86\%\ of\ 55.9 + 66.66\%\ of\ 333.01 + 57.14\%\ of\ 21.01 = ?$
a) 206
b) 171
c) 258
d) 176
e) 183

35) $(2445.98 - 608.06 + 208.18) = ?^2 \div 144 + 890.01$
a) 328
b) 408
c) 512
d) 364
e) 612

36) $30.01^2 - 19.98^2 - ? = 21.01^2$
a) 47
b) 80
c) 54
d) 29
e) 59

37) $324.36 + 195.89 - 44.98^{1.79} = ?^2 - 106.92 * 14.84$
a) 21
b) 11
c) 20
d) 10
e) 14

38) $\left[\frac{\left\{\left(\frac{5.6}{3.8}\right)\times\left(\frac{11.4}{8.4}\right)\right\}}{\left(\frac{35.5}{5}\right)\times\left(\frac{25.5}{5}\right)}\right]\% \ of \ 10863 = ?$
a) 10
b) 4
c) 6
d) 8
e) 12

39) $(15.14)^2 - (16.98)^3 + (18.78)^3 - (8.012)^2 = ?$
a) 1204
b) 879
c) 1659
d) 2017
e) 689

40) $12.25 \times ? \times 21.6 = 3545.64$
a) 61
b) 13
c) 21
d) 11
e) 14

41) $\left(\frac{25.01}{6.99}\right) \div \left(\frac{31.99}{9.01}\right) \times \left(\frac{203.01}{114}\right) \times 32 = ?$
a) 10
b) 17
c) 20
d) 57
e) 34

42) $33.05\%5010.12 + \left(\frac{1}{12.94}\right) \ of \ 2404.98 = ?$

a) 1838
b) 1672
c) 1512
d) 1756
e) 1456

43) $782.85^{\frac{1}{2}} + 37.505\% of\ 2688.04 + 48.12 \times 34.26 \div (203.77) = ?$
a) 2084
b) 1044
c) 1024
d) 1124
e) 1008

44) $\sqrt{625.01} - \sqrt{484} + (1727.99)^{\frac{1.01}{3.02}} + \sqrt{729} - (3375)^{\frac{1}{3}} = \sqrt{?}$
a) 256
b) 169
c) 441
d) 289
e) 625

45) $784.12 \div 14.01 + 598.02 \div 13.01 + ? = 99\% of\ 2500$
a) 69
b) 77
c) 51
d) 64
e) 61

46) $(0.000729)^{\frac{1}{6}}\ of\ 30^2 \div 3 + 15^2 = ?$
a) 140
b) 280
c) 540
d) 315
e) 390

47) $(0.1)^{93.1} \div 0.001^{63.97} = (0.1^2)^?$

a) -21
b) -38
c) -49
d) -44
e) 59

48) $(840.96)^{\frac{1}{2}} + 17.48 \times 28.01 - (4096)^{\frac{1}{3}} = ?$
a) 180
b) 480
c) 600
d) 500
e) 720

49) $?\,\%of\ 2499.99 + 360.02 \div 12.12\ of\ 15.02 \times 119.95 = 29.01 \times 60.02$
a) 120
b) 80
c) 65
d) 60
e) 75

50) $196.1 \times 196.1 \times 196.2 \times 196.3 \times 4.01 \times 4.002 \times 4.08 \times 4.07 = (196.1)^4 \times 4^?$
a) 4
b) 11
c) 2
d) 1
e) 7

51) $\left(\frac{3.98}{5}\right) \times 199.889 + \left(\frac{233.88}{99.98}\right) = ? - 56.98$
a) 10
b) 17
c) 220
d) 11
e) 34

52) $1\frac{1}{16.99}\ of\ 50.98 + ?\,\%of\ 5500 = 41.992^2 + 49.99$

a) 32
b) 22
c) 12
d) 36
e) 30

53) $10.1^{2.01} + 2.9^{3.001} = ? + 51.72^2 - 39.17^2 - 13.17^3$
a) 1140
b) 1250
c) 1320
d) 1740
e) 990

54) $7.69\% of\ 1755 = ?^2 + \sqrt{255} \times 3.9 - \sqrt[3]{729}$
a) 206
b) 171
c) 258
d) 80
e) 183

55) $1044.09 + 9.11\% of 4799 = (?) + 160 + 12.12 \times 16.16$
a) 1124
b) 1408
c) 1112
d) 1614
e) 1617

56) $24.96\ \%\ of\ 130.04 + 25.03\% of\ 89.97 = ?$
a) 47
b) 55
c) 54
d) 65
e) 74

57) $18.006 \times ? \times 27.987 + 28\% of\ 640 + 25\%\ of\ 830 = 8954.78$
a) 21
b) 11

c) 20
d) 17
e) 14

58) $(?) = 471.1 + 744.33 - 148 - 7.01^{2.99}$
a) 724
b) 445
c) 616
d) 834
e) 1220

59) $\left\{39.98\% of \frac{2}{5} + 60.17\% \ of \left(\frac{1}{5}\right)\right\} \times 10^3 - ? = 1$
a) 124
b) 279
c) 659
d) 217
e) 689

60) $936.001 \div 13.007 \div 4.019 \times 17.028 - 12.998 \times 13.98 = ?$
a) 61
b) 136
c) 124
d) 114
e) 144

61) $49.87\ \%\ of\ 1499.81 + 12\frac{1}{2}\%of\ 4999.72 = ?\ \%\ of\ 49.91$
a) 2800
b) 2810
c) 2750
d) 2760
e) 2900

62) $1.87^{3.3} \times 8.13^{1.8} \times 3.96^{2.4} = 4.14^{2.8} \times 2^{?}$
a) 7.2
b) 8.1
c) 7.9

d) 6.4
e) 11.1

63) $\{(2^{1.98} \times 2^{3.87})^{1.81} \div (128 \div 4)^{3.85}\} \times (32 \times 16)^{2.92} = (2 \times 4)^{?+2.86}$
a) 15
b) 14
c) 18
d) 17
e) 10

64) $33.33\%of\ 1498.98 - 10.17\%of\ 400.15 = ? - 55.93$
a) 429
b) 516
c) 758
d) 512
e) 685

65) $\frac{11.84}{3.91} of \frac{75.15}{15.14} of \frac{36.17}{6.28} of \frac{17.89}{8.97} = ?$
a) 191
b) 164
c) 127
d) 253
e) 180

66) $\sqrt{2300} + \sqrt{255} + 79.87 = (1.98^{1.81} + ?^{1.89})^2$
a) $\pm\sqrt{8}$
b) $-\sqrt{7}$
c) $\sqrt{6}$
d) 9
e) -7

67) $\left[\left(2.81\sqrt{4.81} + 2\sqrt{5.05}\right) \times \left(6\sqrt{4.87} + \sqrt{5.02}\right)\right] - 10.98^2 = ?$
a) 85
b) 54
c) 52

d) 43
e) 98

68) $14.89\%\ of\ (39.81\%\ of\ 5.8\%\ of\ 5000.26) = ?$
a) 13
b) 14
c) 25
d) 18
e) 79

69) $\left(\sqrt{9.01} \times \sqrt{8.92}\right)^2 + 49.87\%\ of\ 15.96 = ?^2 + 7.81$
a) 7
b) 4
c) 9
d) 2
e) 3

70) $(15.87*4.98)+(25.81 * 3.03 + 1) + (11.01 * 5.84 - 6.06) + 61.06 = ?$
a) 312
b) 247
c) 454
d) 280
e) 256

71) If approximate value of $x = 11.98*4.81 + 1.96^2 - 2.87^3 + 6.15 - 2.79*3.12$, then find the approximate value of y, $y^2 = x + 29.81$
a) 25
b) 8
c) 3
d) 18
e) 17

72) If approximate value of x= 9.84% of 349.81 + 10.11% of 50.12 + 19.67% of 279.63 + 33.33% of 11.8, then find the approximate value of y , $x - \sqrt{x} = y$
a) 90
b) 85
c) 75

d) 98
e) 100

73) If approximate value of x= 10.36 + 0.963 +43.63 +6.34, then find the approximate value of y, y = x + 49.14
a) 61
b) 65
c) 40
d) 110
e) 100

74) If approximate value of x = 4.26 + 44.88 + 24.87% of 399.84 + 33.33% of 35.81, then find the approximate value of y, y = x + 10.80
a) 160
b) 176
c) 195
d) 172
e) 185

75) If approximate value of x = 19.84% of 319 + 39.91% of 799 + 74.79% of 799 and $y = 4.91^3 + 1.79^3 - 15.87$ then find approximate value of z, where z = x + y
a) 1450
b) 1101
c) 1578
d) 1102
e) 1568

76) If approximately x +12.12+39.81 = y +6.79+14.92*6.061 and x - 8.012*8.92 - 5.93 = 80.81 + 11.88 – y, then find the approximate value of x*y/8.798
a) 756
b) 742
c) 714
d) 780
e) 798

77) If 3.98*x + 33.33% of 80.82 – 9.86% of 29.81 = 4.97% of 159.76 + 6.06^3 then find the approximate value of y, y = 101.945 – x
a) 52

b) 57
c) 56
d) 84
e) 89

78) If 539/39 + 49.84% of 14.14 + 3.87*x = 5.84^2 then find approximate value of y, 10*y + 2^2 = 5*x
a) 1
b) 6
c) 5
d) 8
e) 4

79) If 7.912^2 + 24.84% of 319.88 – 33.33% of 29 + 12.5% of 191.99 = x ,then find approximate value of y, 4.95*y = x + 41.82
a) 82
b) 42
c) 40
d) 80
e) 100

80) If 9.84% of 499.58 – 14.28% of 2400.99 +7.84 % of 240 = x then finds the approximate value of y, x + 279.812 = y^3 – 9.17^3 + 8.97^2 + 9
a) 11
b) 8
c) 6
d) 7
e) 2

81) If 12.82*12.12 + 5.84*6.16 + 12.841^3 = x + 1.87^3 and then find the approximate value of y, x - y =27.81^2
a) 1563
b) 1597
c) 1459
d) 2548
e) 1578

82) If x^2 = 24.91% of 512.12 + 33.33% of 242.82 + 79.855 and then find the approximate value of y, where 12.18^2 = x + 28.56% of 342 + y
a) 15
b) 18
c) 29
d) 19
e) 23

83) If x = 45.815 +67.5% of 599 + 8.898^2 + 3.88^3 , then find the approximate value of y where y = x – 73.855
a) 650
b) 528
c) 459
d) 756
e) 522

84) If approximate value of x = 41.81+62.71+52.15 and y = 3.97^3 + 15.88^2 -6.16^3 then find approximate value z, where 1.952z = 4x + y
a) 524
b) 424
c) 262
d) 645
e) 254

85) If 5.98*x + 57.5% of 161 – 12.5% of 511 + 7.854*x = 50.26% of 1023 + 6.156 then find the approximate value of y, x + 6.785*y = 14.15^2
a) 23
b) 25
c) 13
d) 33
e) 43

86) Choose correct option:-
Quantity I- 49.885% of 33.33% of 24.852% of 2999
Quantity II- 12.156*3.667 + 64.89*2.68 – 2.26*12.256 - 12.5*2.02
a) QI>QII
b) QI<QII
c) QI=QII

d) QI≤QII
e) QI≥QII

87) Choose the correct option: -
Quantity I- $\sqrt{2024} + \sqrt{3135} + 11.84*2.5 - 9.81*3.5$
Quantity II- $(1295)^{1/4} + 12.5\%$ of $287.87 - 483/120$
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

88) Choose the correct option: -
Quantity I- $55.14 + 56.16 + 7.18*7.81 + 8.09*8.90 + 9.27*9.72 - 13.87^2$
Quantity II- $55.12 - 5.89*9.725 + 55.798 + 16.16^2 - 4.89^2 + 15.89^2$
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

89) Choose the correct option:-
Quantity I- $16.865 + 65.65 - 556.80 + 666.86 + 566.95$
Quantity II- $685.16 + 85.166 + 8.12 - 0.8256 - 5.96$
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

90) Choose the correct option :-
Quantity I- $= 11.18^2 + 14.15^3 - 5.15^2 + 9.16^3$
Quantity II- $14.889^3 - 7.87^2 + 15.78^3 - 8.887^2$
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

91) Choose the correct option: -
Quantity I- $29.98*3.898+5.889*1.94+11.025*11.972+41.14*2.98 - 10.88^2$
Quantity II- $12.84*3.98+13.12^2/9.87+13.9*8.71 +225.81$
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

92) Choose the correct option:-
Quantity I $-249.88 * 24.88 + 7.89^2 * 120.16 +16.14* 14.10$
Quantity II- $84.26*55.78 + 15.63*18.18 +56.23*29.8896+10.23*64.84$
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

93) Choose the correct option :-
Quantity I- 15.13+12.5% of 1023+16.67% of 215
Quantity II $(4.84+2.878)^2 +13.16^3 +25.26\%$ of $52.23 - 11.15^2$
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

94) Choose the correct option:-
Quantity I- $\{(255)1/7.88\}^3 +35.97\%$ of $249.88 - 14.88$
Quantity II- 25.12% of 2999.91 -23.15*29.31 +24.99*11.88
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

95) Choose the correct option :-
Quantity I- $47.87*11.98/23.96+(64.14*8.97)/(12.08*11.98)-12.98*9.81 +4.82^3$
Quantity II- $13.14*3.82*5.91+ 11.87*7.19 +17.95^2$

a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

96) Choose the correct option :-
Quantity I- $\sqrt{575} + 25.84*23.91 + 24.88\%$ of $239.86 - 33.33\%$ of 299
Quantity II- $\{(16.16*31.89)^{1/3}\}^2 + \{(7775)^{1/5}\}^3 - 49.87\%$ of 199
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

97) Choose the correct option:-
Quantity I-$49.87\%*399.88 + 27.1\%$ of $499.81 + (14641)^{1/4}$
Quantity II- $\sqrt{170} + \sqrt{2400} + 84.87\%$ of 299
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

98) Choose the correct option:-
Quantity I- $\sqrt{2024} + \sqrt{7224} + 12.5*8.99 - 14.5*7.99$
Quantity II- 49.87% of $215 - 16.87*5.78 + 7.18*3.96$
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

99) Choose the correct option:-
Quantity I- $\sqrt{1224} + 11.89*8.79 - 13.87*4.98$
Quantity II- 24.87% of $863.99 - 26.12*3.98 + 8.28*4.04$
a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII

e) QI≥QII

100) Choose the correct option: -

Quantity I -

$(\sqrt[3]{59318.71} * 752.32 \div 46.8 - 5.76^3 * 25.62\% \text{ of } 250.41 \div 7.92 + 1416.16$

Quantity II-

$(78.36\% \text{ of } 649.84 + (\sqrt{1935.71}) * (\sqrt{1369.22}) + 14.35^2 - 8.68^3) \div 2.89$

a) QI>QII
b) QI<QII
c) QI=QII
d) QI≤QII
e) QI≥QII

CAREER DEFINER

Any Error or Doubts Found

Please mail us :-

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SOLUTION

1) Answer D
$56/n + 512 = 13/100 * 4000$
$56/n = 13 * 40 - 512$
$56/n = 520 - 512$
$56/n = 8$
$n = 56/8$
$n = 7$

2) Answer B
$½ * 500 = n - 1/4 * 800/10$
$250 = n - 800/40$
$250 = n - 20$
$n = 250 + 20$
$n = 270$

3) Answer C
$729 - 7 + 6$
$735 - 7$
$= 728$

4) Answer D
$(9 + 616)1/2 + 15 * 3/5 + 15x = 64$
$6251/2 + 9 + 15x = 64$
$25 + 9 + 15x = 64$
$15x = 64 - 34$
$15x = 30$
$x = 2$

5) Answer C
$¼ * 526 - 35/100 * 160$
$130 - 63 = 67$

6) Answer E
$(12 * 32 * 48) / 16 * 6 + \sqrt{n} = 200$

$192 + \sqrt{n} = 200$
$\sqrt{n} = 8$
$n = 64.$

7) Answer B
$9/16 * 128 + 442$
$9 * 8 + 442$
$72 + 442$
$= 514$

8) Answer D
$3 / 8 * 872 + 5/12 + 444 = \sqrt[3]{x}$
$3 * 109 + 5 * 37 = \sqrt[3]{x}$
$327 + 185 = \sqrt[3]{x}$
$512 = \sqrt[3]{x}$
$x = 8$

9) Answer B
$240 + 4x = 1/5 * 2800$
$240 + 4x = 560$
$4x = 560 - 240$
$4x = 320$
$X = 80$

10) Answer A
$1320 / 40 * 63 - 18 = n$
$33 * 63 - 18 = n$
$n = 2079 - 18$
$n = 2061$

11) Answer B
$[3/2 + 1/5 + 3/4] * 20 - 7^2 = n$
$109 / 20 * 20 - 49 = n$
$109 - 49 = n$
$n = 60$

12) Answer C
$757 / 14 * 5 - 89$

$= 270 - 89$
$= 181$

13) Answer D
$(32 * 600) / 100 + n = (1200 * 4)/20$
$192 + n = 240$
$n = 240 - 192$
$n = 48.$

14) Answer B
$4/25 * 5/16 + 1/5 = n$
$1/20 + 1/5 = n$
$(1 + 4) / 20 = n$
$5 / 20 = n$
$n = 1 / 4$ or 0.25

15) Answer B
$64 * 2^n - (264 + 56) = 8000$
$64 * 2^n = 8000 + 320$
$2^n = \frac{8320}{64}$
$2^n = 130$
$2^n = 2^7$
$n = 7.$

16) Answer D
$484 - 34 = n^2 + 126$
$450 = n^2 + 126$
$n^2 = 450 - 126$
$n^2 = 324$
$n = 18.$

17) Answer B
$x^3 * 12 + 108 = 1608$
$x^3 = \frac{(1608 - 108)}{12}$
$x^3 = 125$
$x = 5.$

18) Answer A

$4^{2n-36} = 300 - 44$

$4^{2n-36} = 256$

$4^{2n-36} = 4^4$

$2n - 36 = 4$

$2n = 4 + 36$

$2n = 40$

$n = 20.$

19) Answer B

$325 / 1000 * 80 + 127 + 217$

$26 + 127 + 217$

$= 370$

20) Answer C

$4/9 * 81/64 * 256 = 41 / 100 * 1250 - n$

$144 = 175 - n$

$n = 175 - 144$

$n = 31.$

21) Answer D

$11 + 17 + 53 = (4 + 5)^x$

$81 = 9^x$

$9^2 = 9^x$

$x = 2.$

22) Answer C

$140 + 3380/13 - 125/100 * 300 = x$

$140 + 260 - 375 = x$

$400 - 375 = x$

$25 = x$

23) Answer B

$51/12 + 7/4 - n = 4$

$72/12 - n = 4$

$6 - 4 = n$

$2 = n.$

24) Answer C
$20 / 4 + n = 1331$
$n = 1331 - 5$
$n = 1326.$

25) Answer C
$22/420 * 84 / 66 * n = 12$
$1 / 15 * n = 12$
$n = 15 * 12$
$n = 180.$

26) Answer E
$1849 + 2809 - 2744 = 2n$
$4658 - 2744 = 2n$
$1914 = 2n$
$n = 957.$

27) Answer B
$\sqrt{(17 * 45 + 4800/4 + 60} = n$
$\sqrt{(765 + 1200 + 60)} = n$
$\sqrt{2025} = n$
$45 = n.$

28) Answer C
$(17 + 63)/5 = n$
$n = 80 / 5$
$n = 16.$

29) Answer A
$78 + 24 + 80$
$= 182$

30) Answer D
$(0.2)^{117*3} /(0.2)^{69*2} = (0.2)^{3n}$
$(0.2)^{351} - 138 = (0.2)^{3n}$
$(0.2)^{213} = (0.2)^{3n}$
$3n = 213$

$n = 213/3$
$n = 71.$

31) Answer A
$120 + 230 - 430 = 120 - 210 + n$
$350 - 430 = n - 90$
$-80 + 90 = n$
$n = 10.$

32) Answer D
$87 * 4 + 162 * 8 = 2400 - n$
$348 + 1296 = 2400 - n$
$n = 2400 - 1644$
$n = 756.$

33) Answer
$9 + ¼ * 880 + n/100 * 2220 = 1296 - 512$
$9 + 220 + 222n/10 = 784$
$222n/10 = 784 - 229$
$222n / 10 = 555$
$222n = 555 * 10$
$n = 5550/222$
$n = 25.$

34) Answer C
$3/7 * 56 + 2/3 * 333 + 4/7 * 21 = n$
$3 * 8 + 2 * 111 + 4 * 3 = n$
$24 + 222 + 12 = n$
$n = 258.$

35) Answer B
$(2446 - 608 + 200) = \frac{n^2}{144} + 890$
$2046 - 890 = \frac{n^2}{144}$
$1156 = \frac{n^2}{144}$
$n^2 = 1156 * 144$
$n^2 = 166464$

n = 408.

36) Answer E
900 – 400 – 441 = n
900 – 841 = n
n = 59.

37) Answer D
$324 + 196 - 2025 = n^2 - 1605$
$520 - 2025 = n^2 - 1605$
$n^2 = 520 - 2025 + 1605$
$n^2 = 100$
n = 10.

38) Answer C
$\{(56 * 144)/(38 * 84)\} / \{(355 * 255)/50 * 50)\}$ % of 10863 = n
$(50 * 50 * 2 * 10863) / (355 * 255 * 100) = n$
n = 6.

39) Answer C
225 – 4913 + 6859 – 512 = n
n = 7084 – 5425
n = 1659.

40) Answer B
$12 * n * 22 = 3546$
$n = 3546/264$
n = 13.

41) Answer D
$25/7 * 9/32 * 203/114 * 32 = n$
n = 57.

42) Answer A
$33/100 * 5010 + 1/13 * 2405 = n$
$33 * 50.1 + 185 = n$
n = 1653.3 + 185
n = 1838

43) Answer B

$28 + 3/8 * 2688 + (48 * 34)/204$

$28 + 3 * 336 + 8$

$28 + 1008 + 8$

$= 1044.$

44) Answer C

$25 - 22 + 12 + 27 - 15 = \sqrt{x}$

$21 = \sqrt{x}$

$x = 21^2$

$x = 441.$

45) Answer B

$784/14 + 593/13 + n = 25$

$56 + 46 + n = 25$

$102 + n = 25$

$-n = 102 - 25$

$n = 77.$

46) Answer D

$0.3 * 900/3 + 225$

$0.3 * 300 + 225$

$90 + 225$

$= 315.$

47) Answer C

$(1 * 94 - 3 * 64)/2$

$(94 - 192) / 2$

$-98 / 2$

$= -49.$

48) Answer D

$39 + 17 * 28 - 16 = x$

$39 + 476 - 16 = x$

$X = 499$

Approx. value of $x = 500.$

49) Answer D
$25x + (360 * 120)/(12 * 15) = 29 * 60$
$25x + 240 = 1740$
$25x = 1740 - 240$
$25x = 1500$
$x = 1500 / 25$
$x = 60.$

50) Answer A
$(196)^4 * (4)^4 = (196)^4 * (4)^n$
$n = 4.$

51) Answer C
$4/5 * 200 + 234/100 = n - 57$
$160 + 2.34 = n - 57$
$n = 160 + 2 + 57$
$n = 219$
approximate value of $x = 220.$

52) Answer A
$18/17 * 51 + n\%$ of $5500 = 1764 + 50$
$n = (100 * 1760)/5500$
$n = 32.$

53) Answer
$100 + 27 = x + 2704 - 1521 - 2197$
$x = 127 - 2704 + 1521 + 2197$
$x = 1141$
approximate value of $x = 1140.$

54) Answer D
$1/13 * 1755 = n^2 + 64 - 9$
$135 = n^2 + 55$
$n^2 = 135 - 55$
$n^2 = 80$

55) Answer A

$1044 + 9/100 * 4800 = n + 160 + 12 * 16$
$1044 + 432 = n + 160 + 192$
$n = 1124.$

56) Answer B
25% of 130 + 25% of 90 = x
25% 0f (130 + 90) = x
25% of 220 = x
x = 220/4
x = 55.

57) Answer D
$18 * n * 28 + 28/100 * 640 + ¼ * 830 = 8955$
$504n + 179 + 207 = 8955$
$504n = 8955 - 386$
$504n = 8569$
$n = 8569/504$
$n = 17.$

58) Answer A
$n = 471 - 744 - 148 - 343$
$n = 724.$

59) Answer
$\left[\left(\frac{2}{5} * \frac{2}{5}\right) + \left(\frac{3}{5} * \frac{1}{5}\right)\right] * 1000 - n = 1$
$\left(\frac{4}{5} + \frac{3}{25}\right) * 1000 - n = 1$
$\frac{7}{25} * 1000 - n = 1$
$280 - n = 1$
$n = 279.$
$n = 279.$

60) Answer C
$(936 * 17) / (13 * 4) - 13 * 14 = n$
$306 - 182 = n$
$n = 124.$

61) Answer C

$50\%\ \text{of}\ 1500 + 12\frac{1}{2}\%\text{of}5000 = x\ \%\ \text{of}\ 50\%$

$(1/2) * 1500 + (1/8) * 5000 = x * 1/2$

$750 + 625 = x * 1/2$

$1375 * 2 = x$

$x = 2750.$

62) Answer C

$2^{3.3} \times 8^{1.8} \times 4^{2.4} = 4^{2.8} \times 2^x$

$2^{3.3} * 2^{5.4} * 2^{4.8} = 2^{5.6} * 2^x$

$2^{3.3+5.4+4.8-5.6} = 2^x$

$x = 3.3 + 5.4 + 4.8 - 5.6$

$x = 7.9$

63) Answer D

$\{(2^2 \times 2^4)^2 \div (128 \div 4)^4\} \times (32 \times 16)^3 = (2 \times 1)^{x+2}$

$\{2^{(2+4)}\}^2 \div (2^7 \div 2^2)^4 \times \{2^5 \times 2^4\}^3 = (2)^{x+2}$

$2^{12} \div 2^{20} \times 2^{27} = 2^{x+2}$

$2^{12-20+27} = 2^{x+2}$

$12 - 20 + 27 = x + 2$

$19 = x + 2$

$X = 17.$

64) Answer B

$33.33\ \%\text{of}\ 1500 - 10\%\text{of}\ 400 = x - 56$

$500 - 40 = x - 56$

$460 = x - 56$

$X = 516$

65) Answer E

$\frac{12}{4}\text{of}\frac{75}{15}\text{of}\frac{36}{6}\text{of}\frac{18}{9} = ?$

$3 * 5 * 6 * 2 = ?$

$180 = ?$

66) Answer D

$\sqrt{2304} + \sqrt{256} + 80 = (2^2 + x^2)^2$

$48 + 16 + 80 - (4 + x^2)^2 = ?$
$144 = (4 + x^2)^2$
$4 + x^2 = 12$
$X^2 = 12 - 4$
$X = \pm\sqrt{8}$

67) Answer B
$\left[\left(3\sqrt{5} + 2\sqrt{5}\right) \times \left(6\sqrt{5} + \sqrt{5}\right)\right] - 11^2 = y$
$35 \times 5 - 121 = y$
$175 - 121 = y$
$Y = 54$

68) Answer D
15% of (40% 0f $0.06 * 5000$) = a
15% of $(0.4 * 300)$ = a
$0.15 * 120$ = a
a = 18.

69) Answer D
$(\sqrt{9} \times \sqrt{9})^2 + (16)\frac{1}{2} = x^2 + 8$
$81 + 8 = x^2 + 8$
$X^2 = 81$
$X = 9$

70) Answer D
$80 + 79 + 60 + 61 = ?$
$? = 280$

71) Answer B
$x = 12 * 5 + 2^2 - 3^3 + 6 - 3 * 3$
$x = 60 + 4 - 27 + 6 - 9$
$= 34$
Then $y^2 = x + 30$
$Y = \sqrt{64}$
$Y = 8$

72) Answer A

$x = 10\%$ of $350 + 10\%$ of $50 + 20\%$ of $280 + 33.33\%$ of 12

$x = 35 + 5 + 56 + 4$

$x = 100$

$x - \sqrt{x} = y$

$100 - 10 = y$

$Y = 90$

73) Answer D

If $x = 10 + 1 + 44 + 6$

$X = 61$

Then find the approx value of y , $y = x + 49.14$

$Y = 61 + 49 = 110$

$Y = 110$

74) Answer D

$x = 4 + 45 + 0.25 * 400 + 36/3$

$x = 161$

$y = 161 + 11$

$y = 172$

75) Answer B

$x = 20\%$ of $320 + 40\%$ of $800 + 75\%$ of 800

$x = 64 + 320 + 600$

$x = 984$

$y = 5^3 + 2^3 - 16$

$y = 125 + 8 - 16$

$y = 117$

$z = x + y$

$z = 984 + 117$

$z = 1101$

76) Answer A

$x + 12 + 40 = y + 7 + 15 * 6$

$x + 52 = y + 7 + 90$

$x - y = 45$

$x + 8 * 9 + 6 = 81 + 12 - y$

$x + y = 81 + 12 + 72 + 6$

$x + y = 171$
$x = 108$
$y = 63$
$x * \frac{y}{9} = \frac{6804}{9} = 756$

77) Answer A
$4 * x + 33.33\%$ of $81 - 10\%$ of $30 = 5\%$ of $160 + 6^3$
$4x + 27 - 3 = 8 + 216$
$4x = 200$
$x = 50$
$y = 101.945 - x$
$y = 102 - 50$
$y = 52$

78) Answer A
$540/30 + 50\%$ of $14 + 4 * x = 6^2$
$18 + 7 + 4x = 36$
$4x = 11$
$x = 2.75 = 3$
$10 * y + 2^2 = 5 * x$
$10 * y = 5 * 3 - 4$
$10y = 15 - 4$
$10y = 11$
$y = 1$

79) Answer C
$8^2 + 25\%$ of $328 - 33.33\%$ of $30 + 12.5\%$ of $192 = 4 * x$
$64 + 80 - 10 + 24 = x$
$x = 158$
$5 * y = x + 42$
$5y = 158 + 42$
$5y = 200$
$y = 40$

80) Answer A
10% of $500 + 14.28\%$ of $2401 + 7.69\%$ of $247 = x$
$50 + 343 + 19 = x$
$412 = x$

$x + 281 = y^3 - 9^3 + 9^2 + 9$
$412 + 281 = y^3 - 729 + 81 + 9$
$692 + 729 - 81 - 9 = y^3$
$1331 = y^3$
$y = 11$

81) Answer B
$13 * 12 + 6 * 6 + 13^3 = x + 2^3$
$156 + 36 + 2197 = x + 8$
$2383 = x + 8$
$x = 2381$
$x - y = 28^2$
$2381 - y = 784$
$y = 1597$

82) Answer C
$x^2 = 25\%$ of $512 + 33.33\%$ of $243 + 80$
$x^2 = 128 + 81 + 80$
$x^2 = 289$
$x = 17$
$12^2 = x + 28.56\%$ of $343 + y$
$144 = 17 + 98 + y$
$y = 29$

83) Answer E
$x = 46 + 67.5\%$ of $600 + 9^2 + 4^3$
$x = 46 + 405 + 81 + 64$
$x = 596$
$y = x - 73.855$
$y = 596 - 74$
$y = 522$

84) Answer C
$x = 42 + 63 + 52 = 157$
$y = 4^3 + 16^2 - 6^3 = 64 + 256 - 216 = 104$
$2z = x + y = 628 - 104 = 524$
$z = 262$

85) Answer A

$6 * x + 57.5\%$ of $160 - 12.5\%$ of $512 + 8 * x = 50\%$ of $1024 + 6$

$14 * x + 92 - 64 = 512 + 6$

$14 * x = 512 - 28 + 6$

$14 * x = 490$

$x = 35$

$x + 7 * y = 14^2$

$35 + 7 * y = 196$

$7 * y = 161$

$y = 23$

86) Answer B

Quantity I –

50% of 33.33% of 25% of 3000

$= (1/2) * (1/3) * (1/4)$ of 3000

$= 125$

Quantity II –

$12 * 4 + 65 * 3 - 2 * 12 - 12.5 * 2$

$= 48 + 195 - 24 - 25$

$= 194$

QI < QII

87) Answer A

Quantity I –

$\sqrt{2025} + \sqrt{3136} + 12 * 2.5 - 10 * 3.5$

$= 45 + 56 + 30 - 35$

$= 166$

Quantity II –

$(1296)^{\frac{1}{4}} + 12.5\%$ of $288 - 484/121$

$= 6 + 36 - 4$

$= 42 - 4$

$= 38$

QI > QII

88) Answer B

Quantity I –

$55 + 56 + 7 * 8 + 8 * 9 + 9 * 10 - 14^2$

$= 55 + 56 + 56 + 72 + 90 - 196$
$= 133$
Quantity II –
$55 - 6 * 10 + 56 + 16^2 - 5^2 + 16^2$
$= 55 - 60 + 56 + 256 - 25 + 256$
$= 538$
QI < QII

89) Answer A
Quantity I –
$16.865 + 65.65 - 556.80 + 666.86 + 566.95$
$17 + 66 - 57 + 667 + 567$
$= 759$
Quantity II –
$685.16 + 85.166 + 8.12 - 0.8256 - 5.96$
$685 + 85 + 8 - 1 - 6$
$= 771$
QI > QII

90) Answer B
Quantity I –
$= 11^2 + 14^3 - 5^2 + 9^3$
$= 121 + 2744 - 25 + 729$
$= 3569$
Quantity II –
$= 15^3 - 8^2 + 16^3 - 9^2$
$= 3375 - 64 + 4096 - 81$
$= 7326$
QI < QII

91) Answer A
Quantity I –
$= 120 + 12 + 132 + 123 - 121$
$= 508$
Quantity II –
$= 52 + \frac{169}{10} + 126 + 226$
$= 421$
QI > QII

92) Answer A
Quantity I –
$250 * 25 + 64 * 120 + 16 * 14$
$= 14154$
Quantity II –
$84 * 55 + 15 * 18 + 56 * 30 + 10 * 65$
$= 7220$
QI > QII

93) Answer B
Quantity I –
$= 15 + 12.5\%$ of $1024 + 16.67\%$ of 216
$= 15 + 128 + 36$
$= 179$
Quantity II –
$= 8^2 + 13^3 + 25\%$ of $52 - 11^2$
$= 64 + 2197 + 13 - 121$
$= 2153$
QI < QII

94) Answer B
Quantity I –
$= \{(256)1/8\}^3 + 36\%$ of $250 - 15$
$= 8 + 90 - 15$
$= 83$
Quantity II –
$= 25\%$ of $3000 - 23 * 29 + 25 * 12$
$= 750 - 667 + 300$
$= 383$
QI < QII

95) Answer B
Quantity I –
$= 576/24 + 576/144 - 52 * 2.5 + 5^3$
$= 24 + 4 - 130 + 125$
$= 23$
Quantity II –

$= 52 * 6 + 56 * 1.5 - 0.2 * 0.5 + 18^2$
$= 312 + 84 + 324$
$= 720$
QI < QII

96) Answer A
Quantity I –
$= \sqrt{576} + 26 * 24 + 25\%$ of $240 - 33.33\%$ of 300
$= 24 + 624 + 60 - 100$
$= 608$
Quantity II –
$= \{(512)^{\frac{1}{3}}\}^2 + \{(7776)^{\frac{1}{5}}\}^3 - 50\%$ of 200
$= 64 + 216 - 100$
$= 180$
QI > QII

97) Answer A
Quantity I –
$= 50\% * 400 + 27\%$ of $500 + (14641)^{1/4}$
$= 200 + 135 + 11$
$= 346$
Quantity II –
$= \sqrt{169} + \sqrt{2401} + 85\%$ of 300
$= 13 + 49 + 255$
$= 317$
QI > QII

98) Answer A
Quantity I –
$\sqrt{2025} + \sqrt{7225} + 12.5 * 9 - 14.5 * 8$
$= 45 + 88 + 112.5 - 116$
$= 126.5$
Quantity II –
49.87% of $215 - 16.87 * 5.78 + 7.18 * 3.96$
$= 108 - 102 + 28$
$= 34$
QI > QII

99) Answer B

Quantity I –

$\sqrt{1225} + 12 * 9 - 14 * 5$

$= 35 + 108 - 70$

$= 73$

Quantity II –

124.87% of $863.99 - 26.12 * 3.98 + 8.28 * 4.04$

$= 216 - 104 + 32$

$= 144$

QI < QII

100) Answer B

Quantity I –

$(\sqrt[3]{59318.71} * 752.32 \div 46.8 - 5.76^3 * 25.62\%$ of $250.41 \div 7.92 + 1416.16$

$(\sqrt[3]{59318.71} * 752.32 \div 46.8 - 5.76^3 * 25.62\% \, of \, 250.41 \div 7.92 + 1416$

$(\sqrt[3]{59319} * 752 \div 47 - 6^3 * 26\% \, of \, 250 \div 8 + 1416$

$39 * 16 - 216 * 65 \div 8 + 1416$

$624 - 1755 - 1416$

$624 + 1416 - 1755 - 1416$

$x = 285$

Quantity II –

$(78.36\%$ of $649.84 + (\sqrt{1935.71}) * (\sqrt{1369.22}) + 14.35^2 - 8.68^3) \div 2.89$

$(78\%$ of $650 + (\sqrt{1936}) * (\sqrt{1369}) + 14^2 - 9^3) \div 3$

$(507 + 44 * 37 + 196 - 729) \div 3$

$(507 + 1628 + 196 - 729) \div 3$

$1602 \div 3$

534

QI < QII

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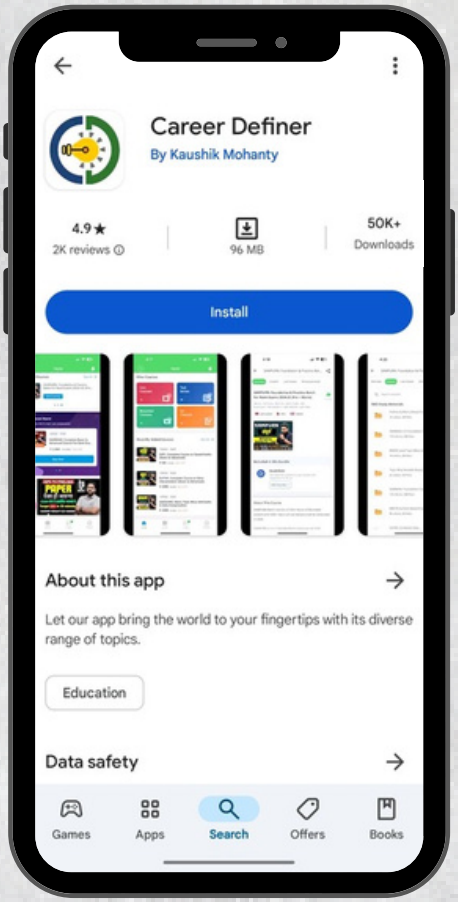

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